

# KV-27TX20

## RM-754

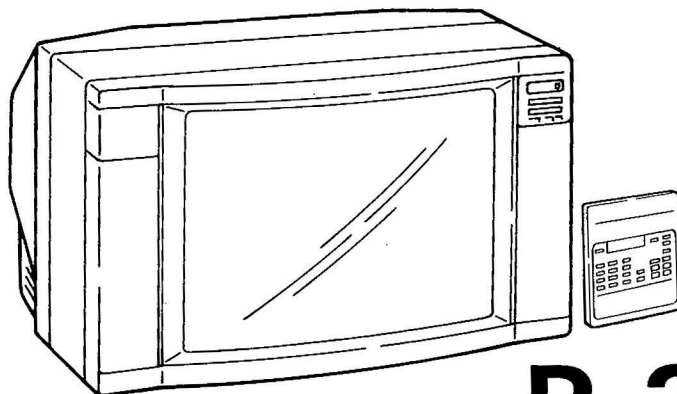
# SERVICE MANUAL

*US Model*

Chassis No. SCC-B55F-A

*Canadian Model*

Chassis No. SCC-A50L-A



## P-3A CHASSIS

**Note :** The service manual for RM-754 has been issued separately.

### MODELS OF THE SAME SERIES

KV-27TX20	

### SPECIFICATIONS

Television system	American TV standards
Channel coverage	VHF: 2-13 UHF: 14-69 Cable TV: 1-125
Picture tube	Microblack Trinitron tube <b>27-inch picture measured diagonally</b> 28-inch picture tube measured diagonally
Input	VIDEO INPUT 1 and 2 (phono jacks) Video: 1 Vp-p, 75-ohms unbalanced, sync negative Audio: 500 mVrms (100% modulation) Impedance: 47 kilohms
Output	AUDIO OUTPUT (VARIABLE) (phono jacks) More than 408 mVrms at the maximum volume setting (variable) (100% modulation) Impedance: 10 kilohms
Dimensions	Approx. 794 x 559 x 515 mm (w/h/d)
Weight	Approx. 50 kg

Power requirements	120 V AC, 60 Hz
Power consumption	175W (max.) 5W (in standby condition)
Accessories supplied	Remote Commander RM-754 with 2 size AA (R6) batteries Antenna connector
Optional accessories	U/V mixer EAC-66 Connecting cord VMC-810/820S RK-C74/150

Design and specifications subject to change without notice.



## TRINITRON® COLOR TV

# SONY®


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## WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.


## SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

## ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

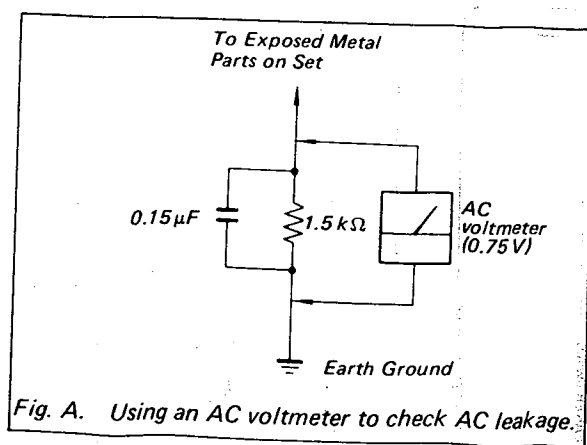
## ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

## SAFETY CHECK-OUT (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).  
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



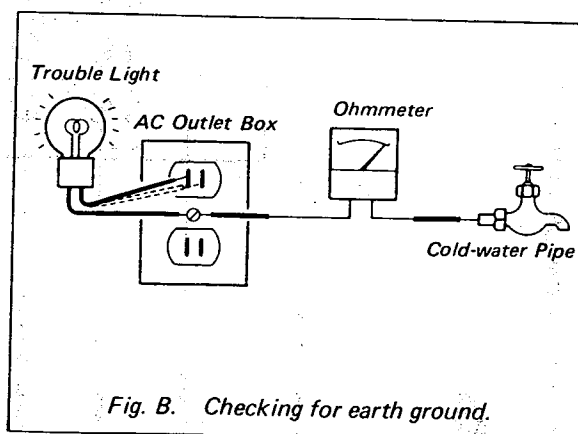
### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### HOW TO FIND A GOOD EARTH GROUND

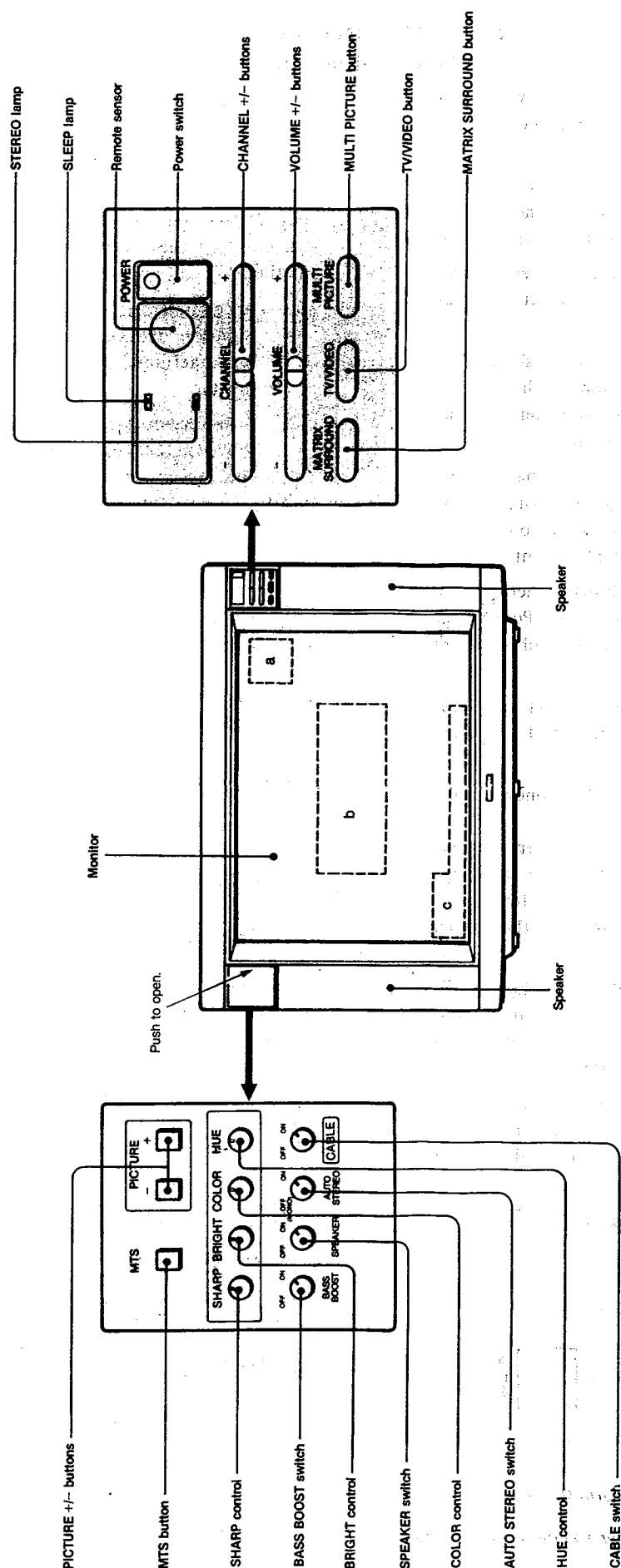
A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



# SECTION 1 GENERAL

## 1-1. LOCATION OF CONTROLS

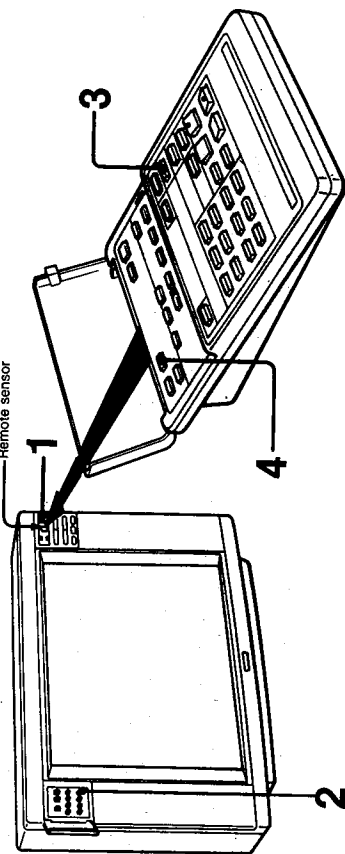
Front



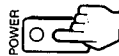
- On-screen displays**
- a) Channel numbers
  - MTS mode indication
  - "MUTING", "SLEEP" or "VIDEO" mode indication
  - b) "AUTO PROGRAM" indication
  - c) Bar display for volume or picture adjustment
  - Current time when the internal clock is set
  - Display for surround mode indication

## 1-2. PRESETTING TV CHANNELS

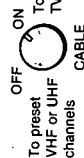
Use the Remote Commander.



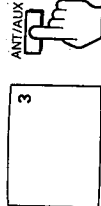
### 1 Turn the TV on.



### 2 Set CABLE to the correct position.



### 3 Press ANT/AUX according to the channel to be preset.



To preset VHF, UHF or regular cable TV channels

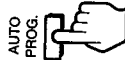
Receivable channels of this TV are:

VHF: 2-13  
UHF: 14-69  
Cable: 1-125

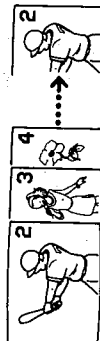
To check preset channels

Press CH +/-

### 4 Press AUTO PROG.



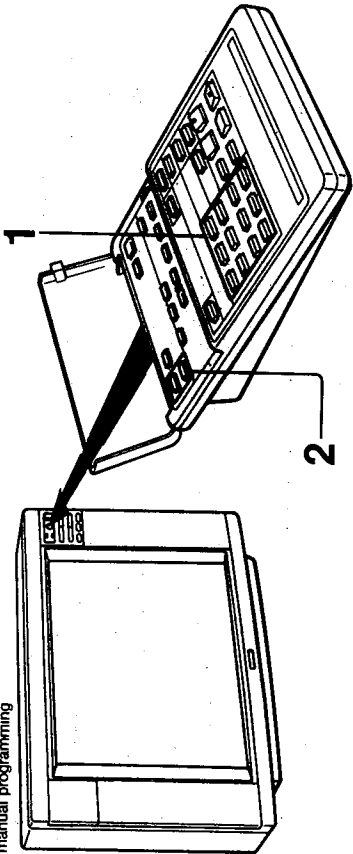
"AUTO PROGRAM" is displayed on the screen and receivable channels (other than the channels already preset) will be preset in numerical sequence. The channels previously preset remain in the unit's memory. When no more channels can be found, the programming stops and the lowest numbered channel is displayed.



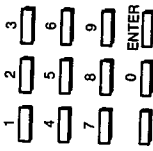
To add the channels that could not be preset with automatic programming because their signal strength was too weak, or to erase unnecessary channels, follow the steps in "To preset only the desired channels" on the next page.

If the "VIDEO" indication is displayed on the screen, press TV/VIDEO so that a channel number appears.

To preset only the desired channels — manual programming



### 1 Press the channel number button(s) and then ENTER to select the channel to be added or erased.



### 2 To add channels

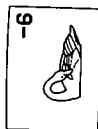
Press ADD.



A "+" appears for a moment. This channel has now been added to the channel scan memory.

### To erase channels

Press ERASE.



A "-" appears for a moment. This channel has now been erased from the channel scan memory.

Repeat steps 1 and 2 for other channels to be added or erased.

When a VHF or UHF channel is erased  
The cable TV channel with the same number is also erased and vice versa.

Cable TV channel chart\*

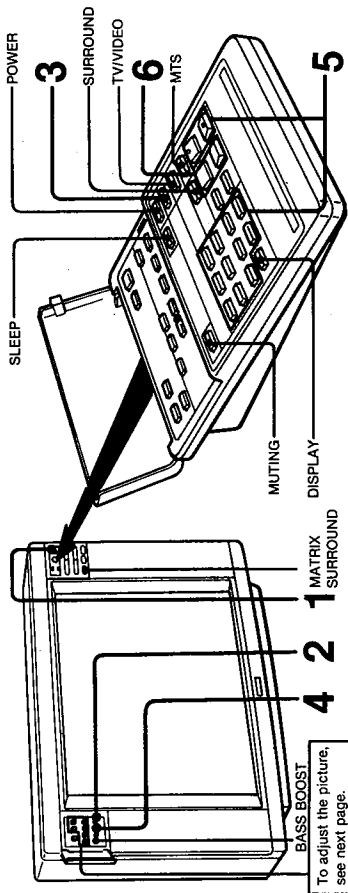
Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

Number on this TV		1	5	6	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Corresponding CATV channel		A-8	A-7	A-6	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		
31	32	33	34	35	36	37	38	39	.....	93	94	95	96	97	98	99	100	101	102	.....	123	124	125
R	S	T	U	V	W	W+1	W+2	W+3	.....	W+5	W+5B	A-5	A-4	A-3	A-2	A-1	W-5B	W-5B	W-5B	W-5B	W-5B	W-5B	W-5B

Check with your local cable TV company for more complete information on the available channels.

\*The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

# 1-3. WATCHING TV PROGRAMS

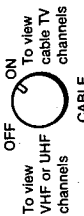


To adjust the picture, see next page.

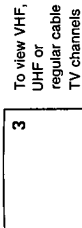
**1** Press POWER to turn the TV on.



**2** Set CABLE to the appropriate position.



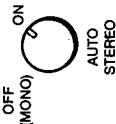
**3** Press ANT/AUX according to the channel to be watched.



To view VHF, UHF or regular cable TV channels

To view pay cable TV channels

**4** Set AUTO STEREO to ON.



If the "VIDEO" indication is displayed on the screen Press TV/VIDEO so that a channel number appears.

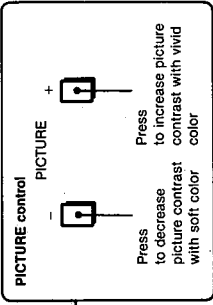
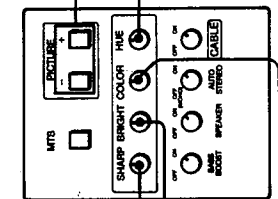
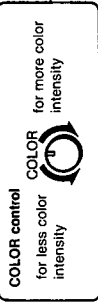
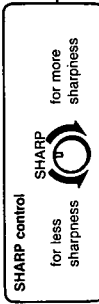
When receiving a Multichannel TV Sound program Each time MTS is pressed, MAIN, SAP (Second Audio Program), or both are selected in sequence. The corresponding indication will appear on the screen for a while.

If noise makes it hard to receive a very weak TV stereo program Set AUTO STEREO on the TV to OFF so that the STEREO lamp goes off. The stereo effect will be cancelled, but reception will be stabilized and the noise will be reduced.

To mute the sound Press MUTING. The "MUTING" indication will appear on the screen. To restore the sound, press MUTING again or VOL +/-.

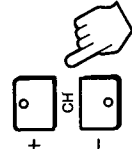
To keep the channel display on the screen Press DISPLAY.

To adjust the picture

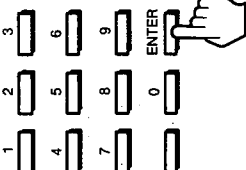


**5** Select a channel in one of the following two ways:

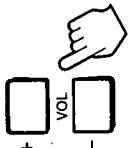
To scan the preset channels in numerical sequence, press CH +/-.



To select a channel directly, press the channel number button(s) and then ENTER. For example, to select channel 10, press 1, 0 and ENTER.



**6** Press VOL + or - to adjust the volume.

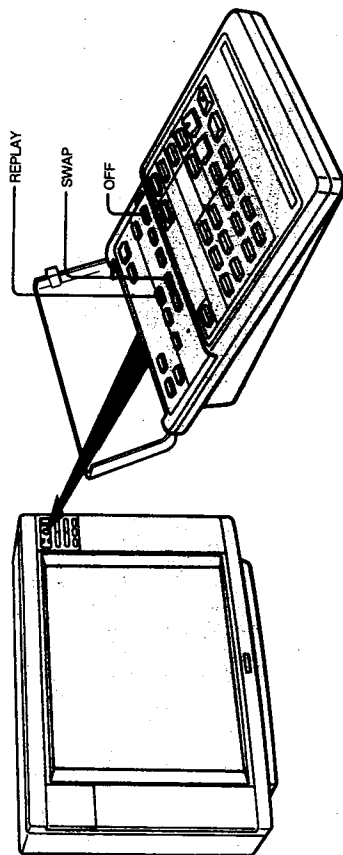
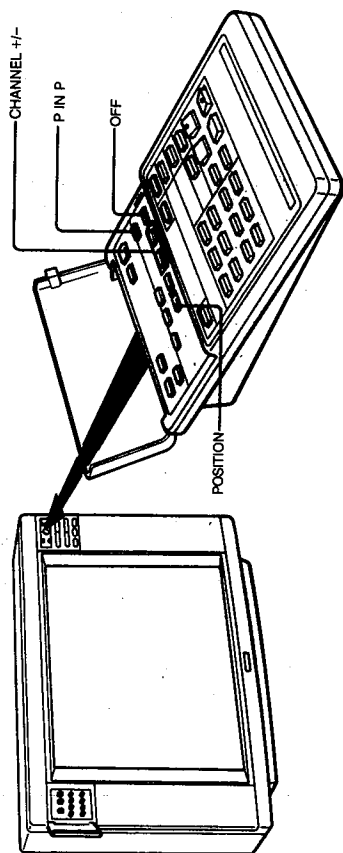


To enjoy MATRIX surround effect To enjoy sound reproduction with the atmosphere of a movie theater or a concert hall, press the MATRIX SURROUND button or the SURROUND button. The sound comes out also from the rear speakers. Press the button again to deactivate MATRIX surround effect.

Surround	On-screen indication
Turned ON	Matrix
Turned OFF	Matrix

This MATRIX surround effect works only at stereo broadcasting.

## 1-4. ENJOYING THE PICTURE-IN-PICTURE FEATURE



Besides the main picture, another TV channel or a video source can be displayed simultaneously as a sub picture.

**To scan the channels of a sub picture, press CHANNEL +/-.**  
**To make the sub picture disappear, press OFF.**

**To display a sub picture**  
 Press P IN P.

Each time P IN P is pressed, a 1/9-size or 1/4-size sub picture will appear, alternately.

**To change the position of the sub picture**  
 1 Display a sub picture.  
 2 Press POSITION.

**To swap the main and the sub picture**  
 1 Display a sub picture.  
 2 Press SWAP.

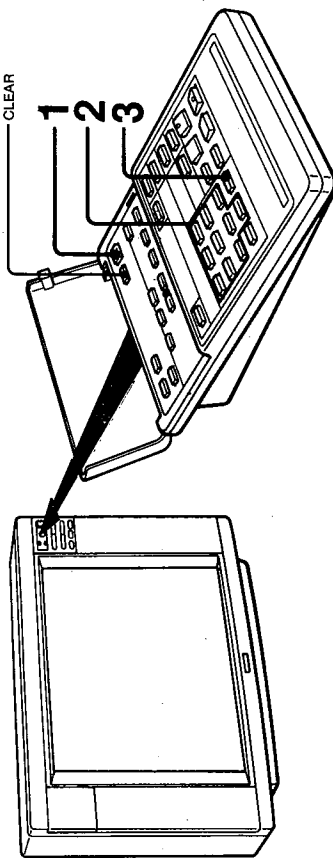
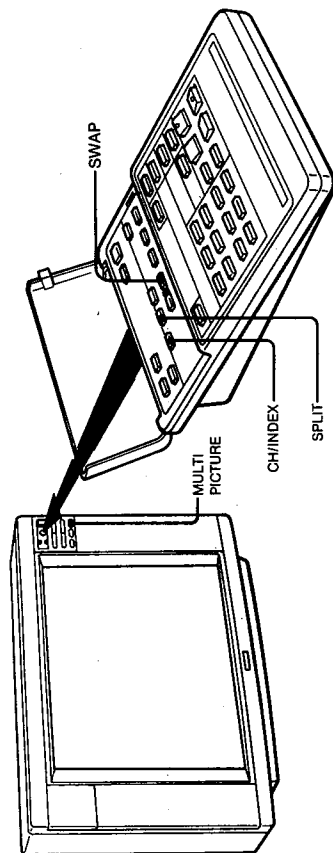
**To replay the main picture displayed 2 seconds earlier**  
 Press REPLAY.

**To make the replay picture disappear, press OFF.**

- The channels being received through the AUX terminal cannot be displayed as a sub picture except as a split picture. (See page 18.)
- The sound of the sub picture cannot be heard.

**To adjust a sub picture**  
 Adjust the controls inside the panel of the TV. The PICTURE buttons and BRIGHT, COLOR and HUE controls operate on a main and a sub picture simultaneously. The SHARP control is not operable for a sub picture.

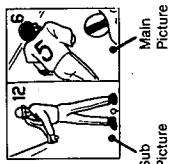
## 1-5. SETTING THE CLOCK



Example: To set the clock to 8:05 p.m.

To split the screen with the main and the sub picture

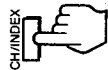
Press SPLIT.



Only the sound of the main picture (right screen) is heard.

To display 7 different sub pictures simultaneously

Press CH/INDEX.



Seven preset channels appear in numerical sequence as sub pictures.  
Each time CH/INDEX is pressed, another 7 preset channels will appear.

To swap the main and the sub picture in the split screen, press SWAP.

When using the split-screen feature, vertical lines may appear to you to be elongated.

In the split screen, picture may slightly move vertically.

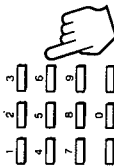
The internal clock of this TV is 12-hour cycle. If the 24-hour cycle number is displayed, it will be cleared when ENTER is pressed.

Clock setting will be erased from the unit's memory if the unit is unplugged, or if a power failure occurs.

1 Press TIME.

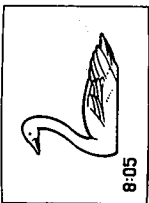


2 Press 0, 8, 0, 5 (0 necessary).



If you have made a mistake, press CLEAR within 3 seconds and repeat this step.

3 Press ENTER.



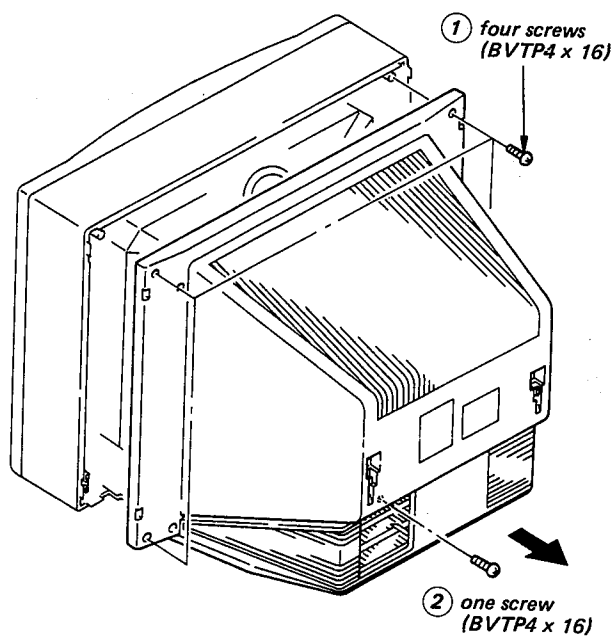
The numbers will blink to indicate that the clock has been set. (The 0 in front will disappear.)

To make the clock indication disappear, press TIME.  
To reset the clock, make the clock indication disappear and then make it appear again. Press CLEAR within 3 seconds and follow the steps above from 2.

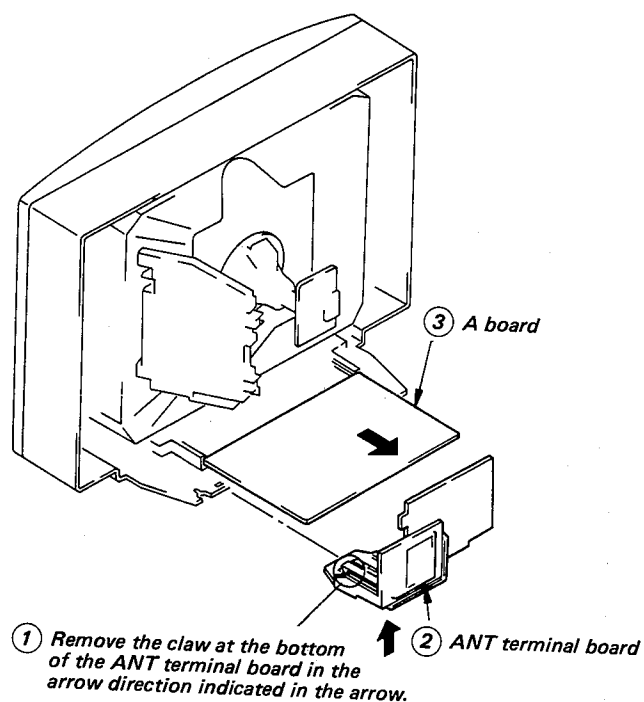


## SECTION 2 DISASSEMBLY

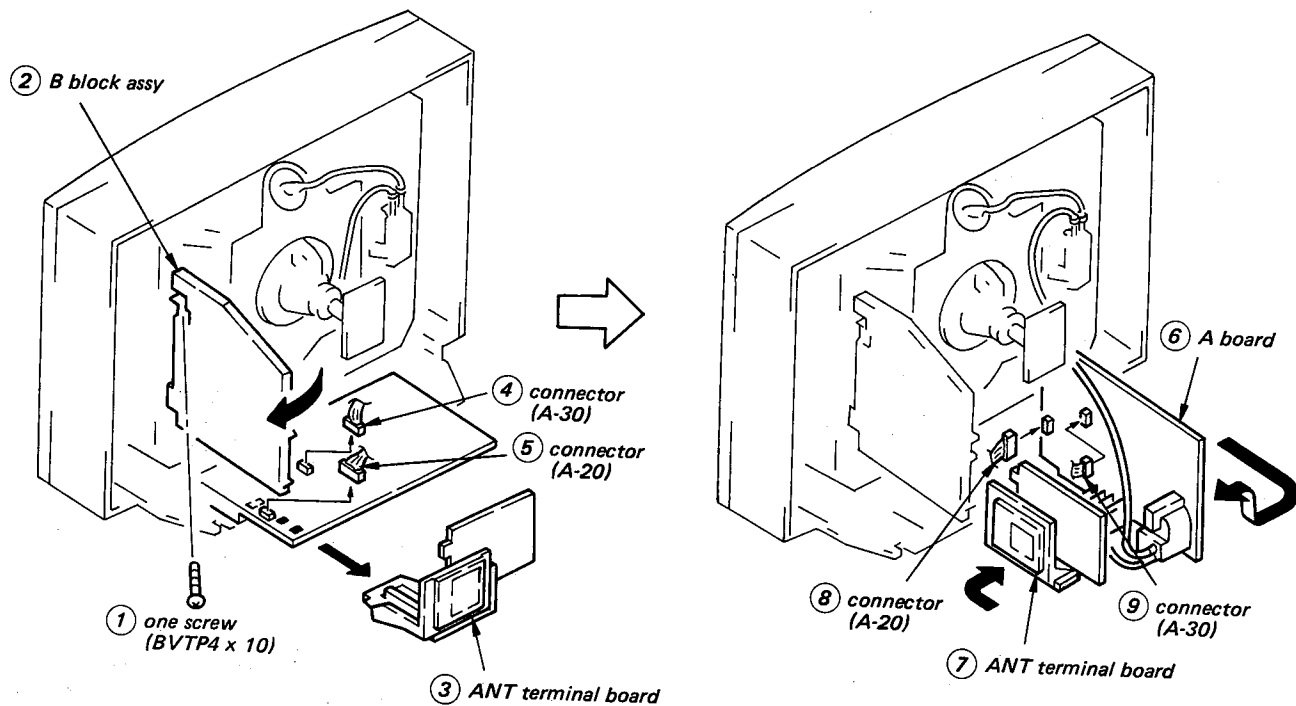
### 2-1. REAR COVER REMOVAL



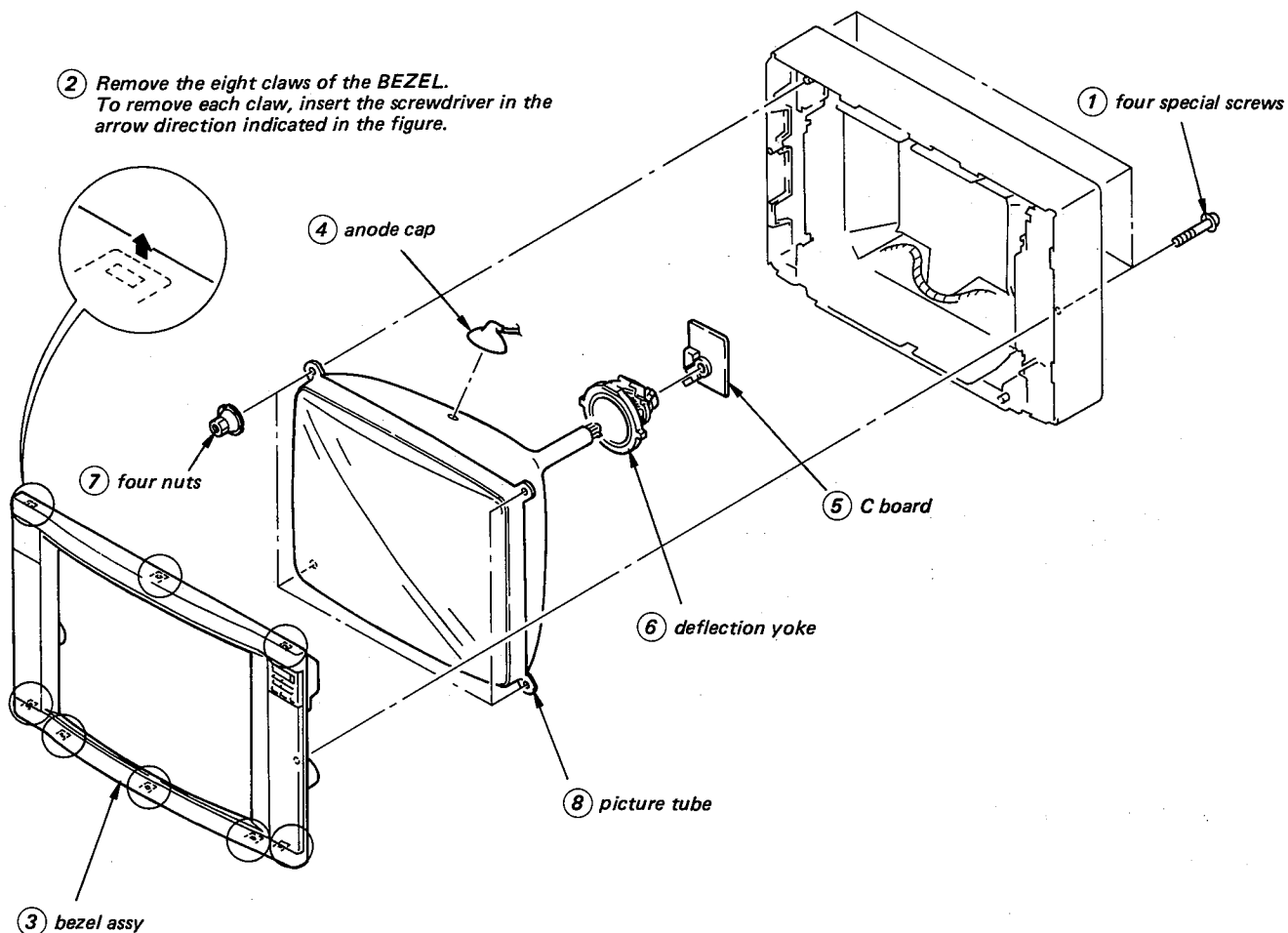
### 2-2. A BOARD REMOVAL



### 2-3. SERVICE POSITION



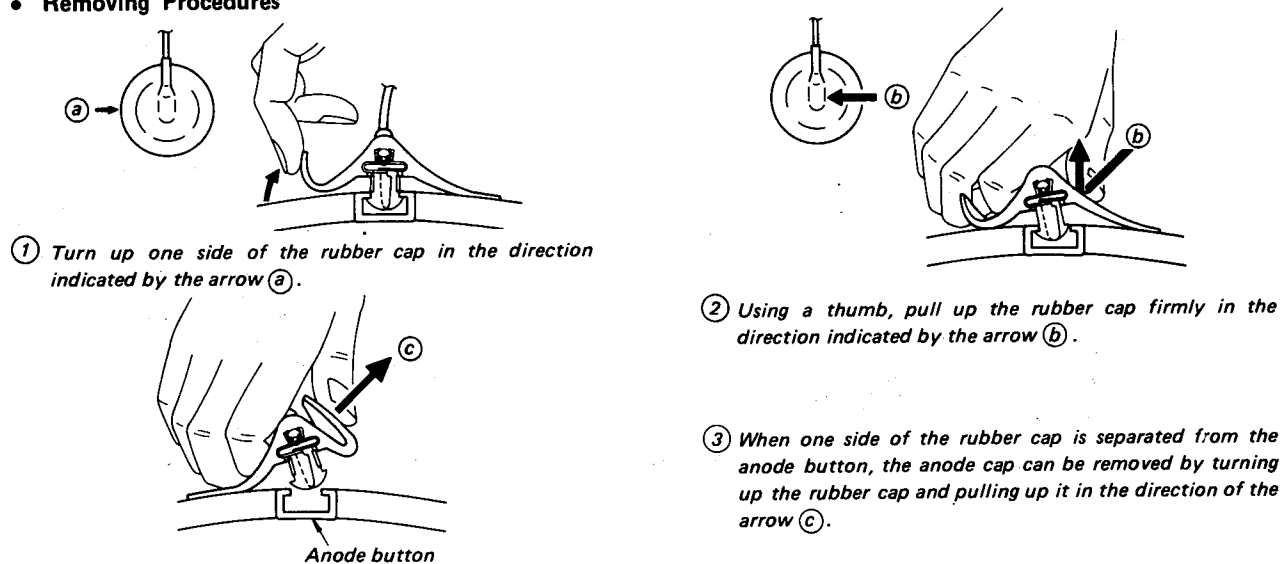
## 2-4. PICTURE TUBE REMOVAL



## 2-5. REMOVAL OF ANODE CAP

### ANODE CAP REMOVAL

#### • Removing Procedures



## SECTION 3

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control . . . . . RESET

BRIGHTNESS control . . . . . center

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

**Note:** Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

#### 3-1. BEAM LANDING

##### Preparation:

- Feed in the white pattern.
  - Before starting, degauss the entire screen.
1. Turn on set power supply and receive an all-white signal.
  2. Evenly degauss the entire screen.
  3. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Figure 3-1.
  4. Set BKG VR **R** to maximum and set **B** and **G** to minimum.
  5. Move the deflection yoke back, and adjust the purity control so that **R** is in the center and **G** and **B** are at the sides, evenly. (Figure 3-2.)
  6. Move the deflection yoke forward so that the entire screen is red.
    - \* If the deflection yoke is pushed all the way to the CRT then moved slightly back, landing adjustment is easier.
  7. Substitute **G**, then **B** for **R** in step 4 and check landing.
  8. Rotate **R**, **G** and **B** once each and check landing.
  9. When landing is not right, adjust the purity control and use magnets as shown in Figure 3-3; then repeat steps 7 and 8.
  10. When a magnet is used, be sure to perform step 2, and tighten deflection yoke mounting screw loosely.

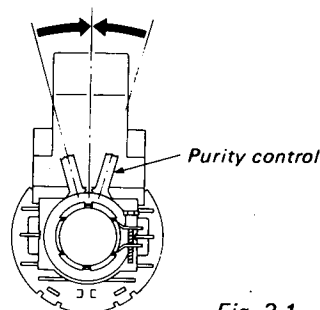


Fig. 3-1.

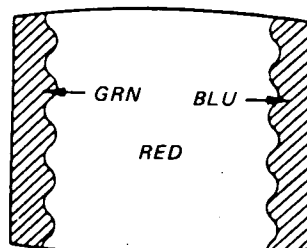


Fig. 3-2.

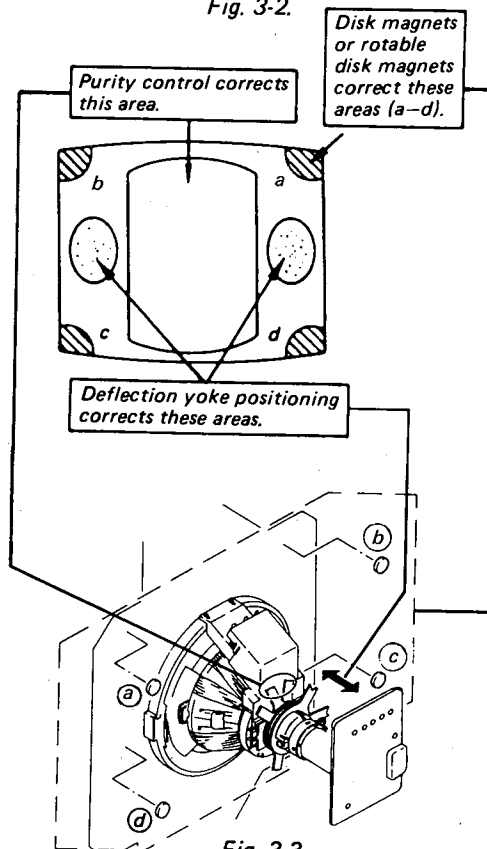
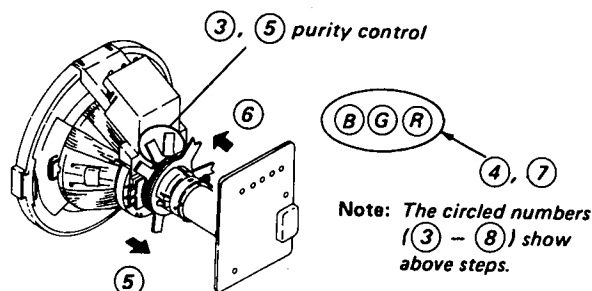


Fig. 3-3.

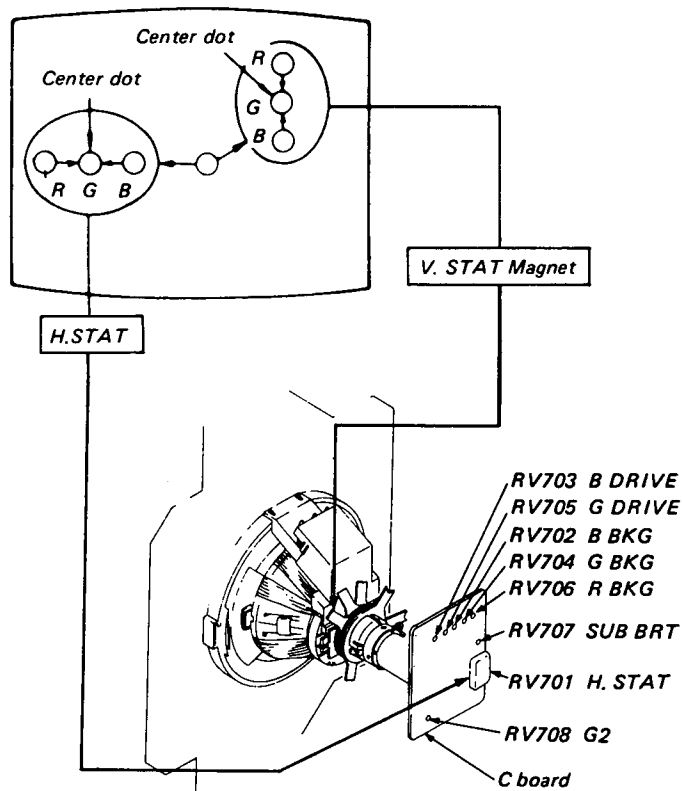


### 3-2. CONVERGENCE

#### Preparation:

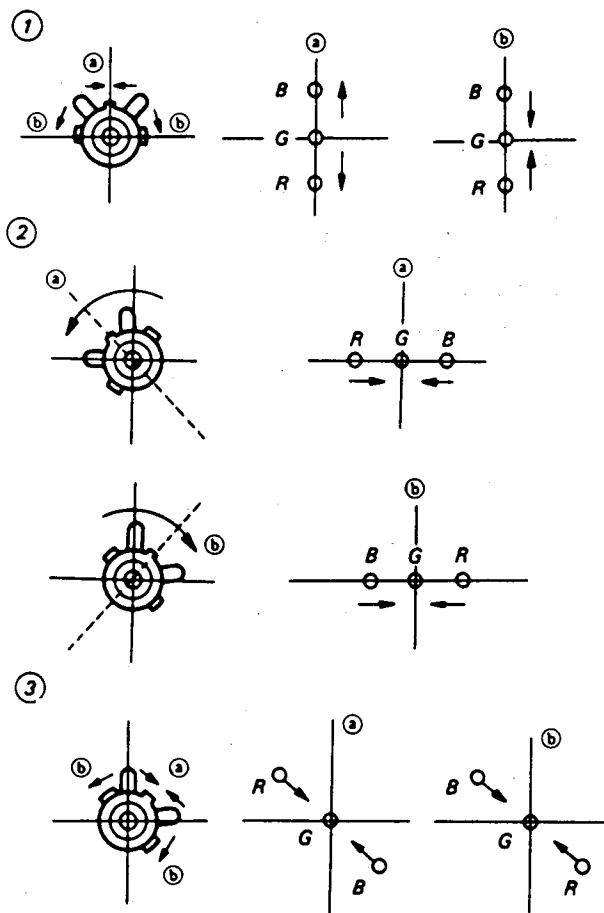
- Before starting, perform FOCUS, H. SIZE, V. SIZE and V. LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.

#### (1) Horizontal and Vertical Static Convergence



1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen (Horizontal movement)
  2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen (Vertical movement)
  3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

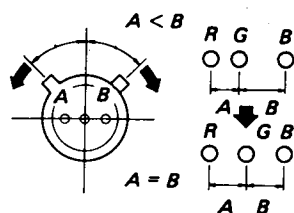
4. When the V. STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.



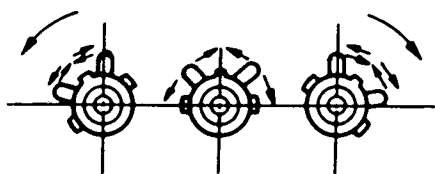
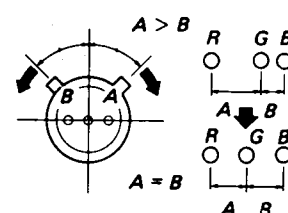
#### • HMC and VMC correction for Hexapole Magnet.

1. HMC (Horizontal, Mis, convergence) correction and motion of the Electron Beam with the Hexapole Magnet.

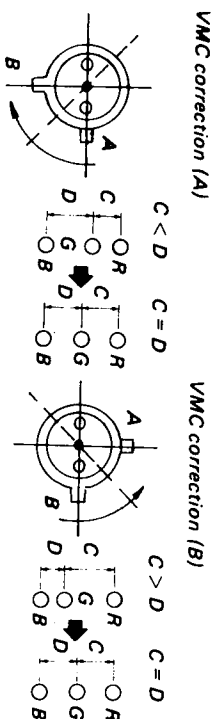
#### HMC correction (A)



#### HMC correction (B)



2. VMC (Vertical, Mis. convergence) correction and motion of the Electron Beam with the Hexapole Magnet.

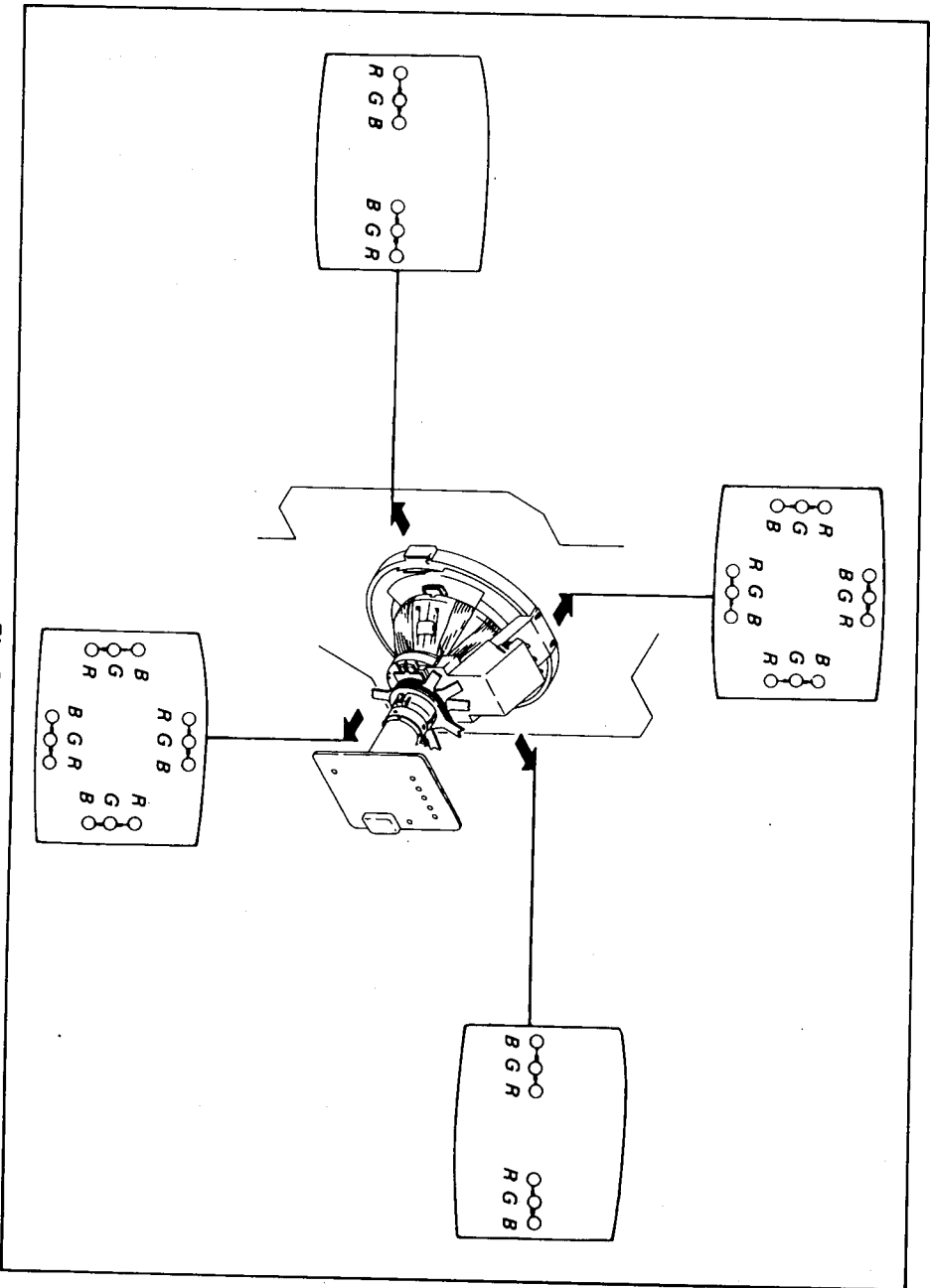


(2) Dynamic Convergence Adjustment

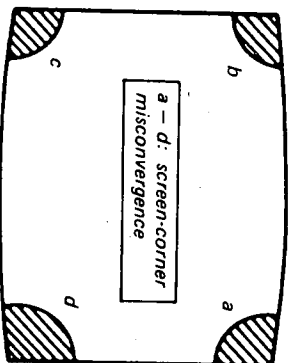
Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown in Fig. 3-4.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

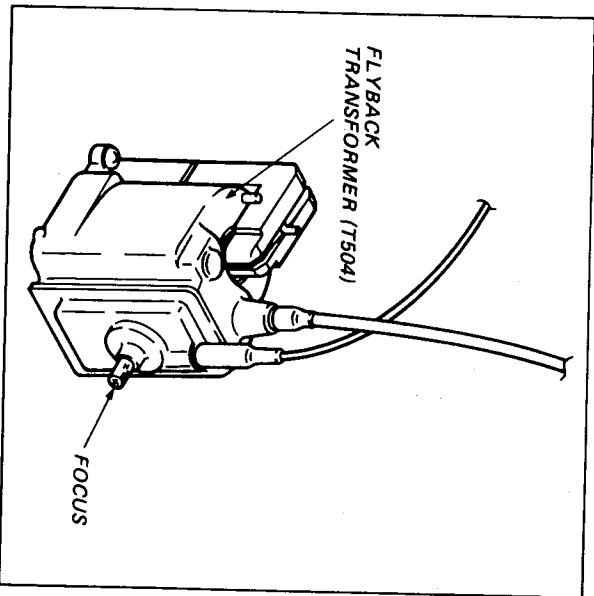


(3) Screen-corner Convergence



3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for a best focus.



3-4. WHITE BALANCE

- Input dot signal from pattern generator.
- PICTURE button . . . . . 80% BRIGHTNESS control . . . . . click position

- [SCREEN (G2)]
1. Adjust BKG VRs (RV702, RV704, and RV706) so that voltages on the red, green and blue cathodes are 180 V dc with an oscilloscope as shown in Fig. 3-5.

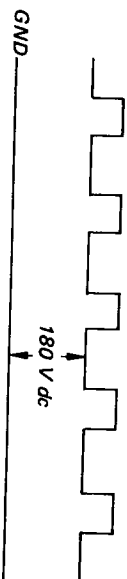
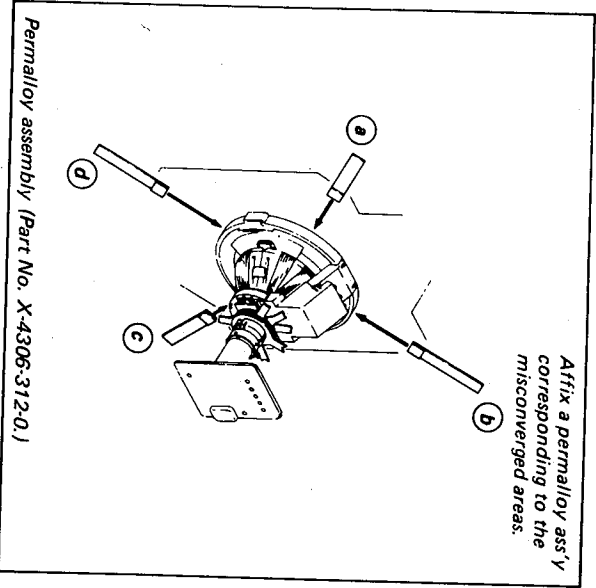


Fig. 3-5.

2. Observe the screen and adjust RV708 (SCREEN) to obtain the faintly visible background of dot signal. Note the color that first becomes visible by turning SCREEN VR.  
Do not turn a BKG control for this color.

[WHITE BALANCE]

1. Input entirely white signal from pattern generator.
2. Set the PICTURE button to obtain the faintly visible raster on the screen.
3. Observe the screen and adjust the other two BKG VRs for best white balance.
4. Set the PICTURE button at maximum.
5. Observe the screen and adjust the DRIVE VRs (RV703, RV705) for best white balance.
6. Repeat steps 2 through 5 several times.

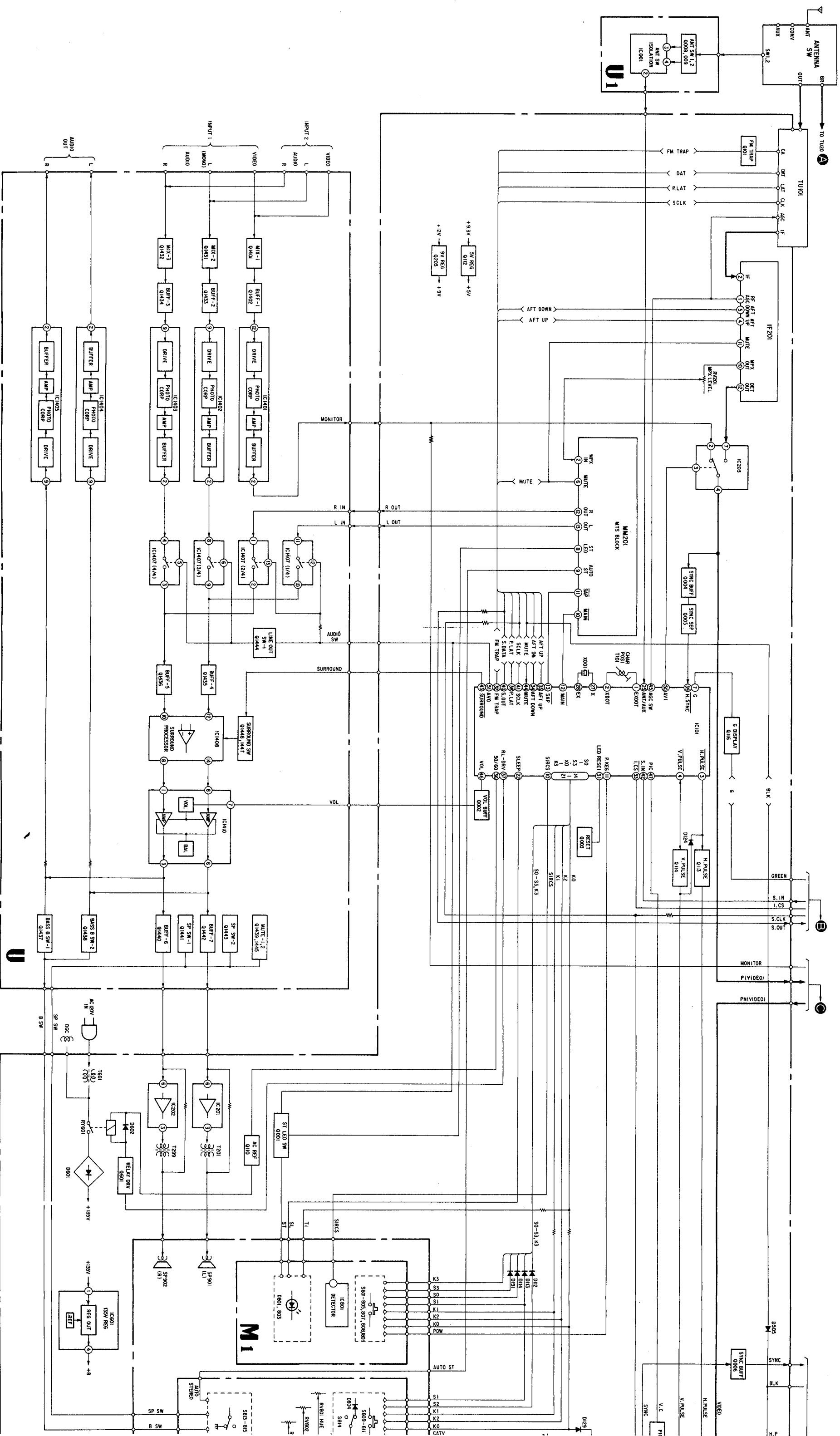


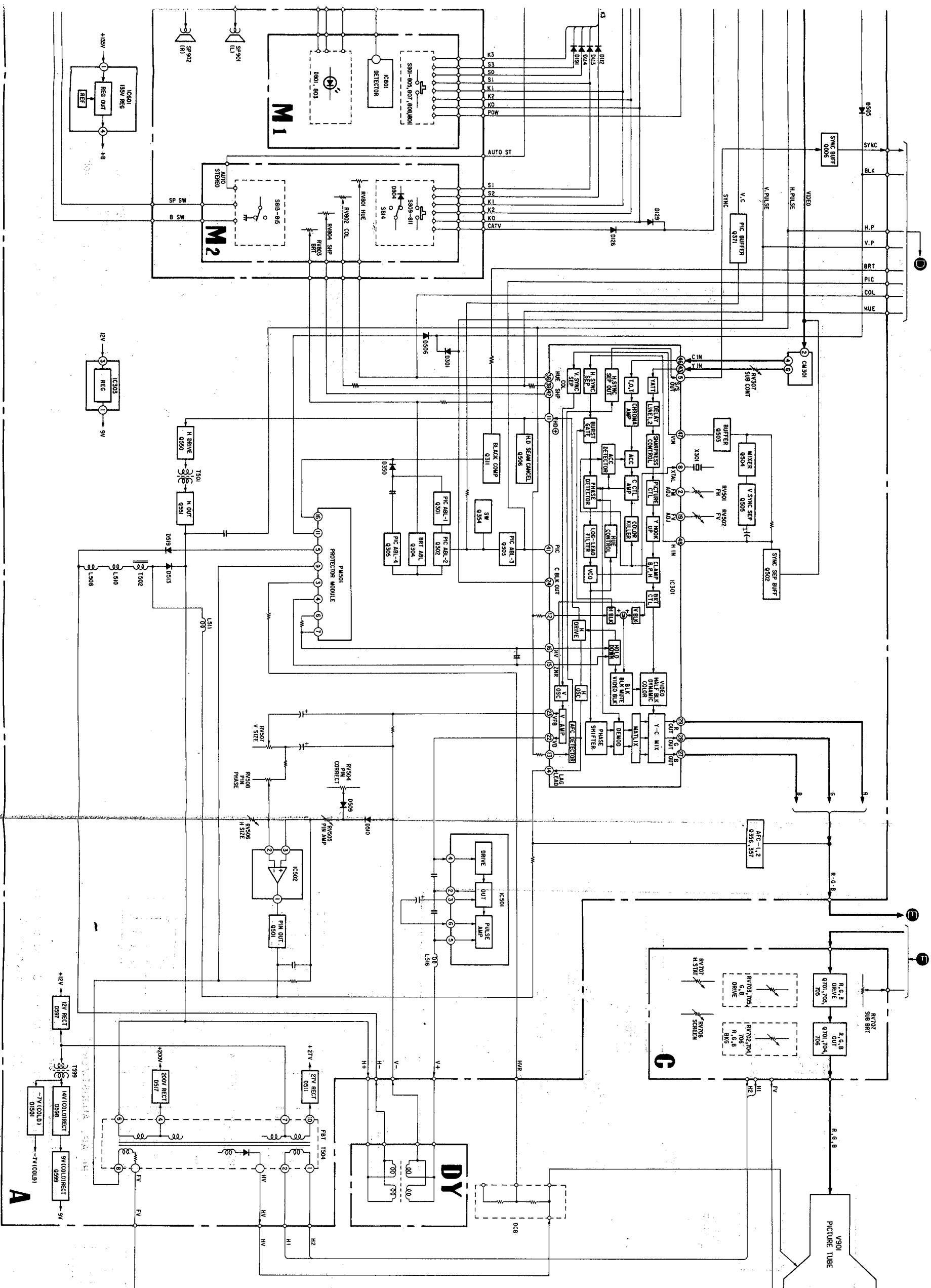
### 6-1. BLOCK DIAGRAM

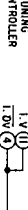
## SECTION 6 DIAGRAMS

**KV-27TX20**  
RM-754

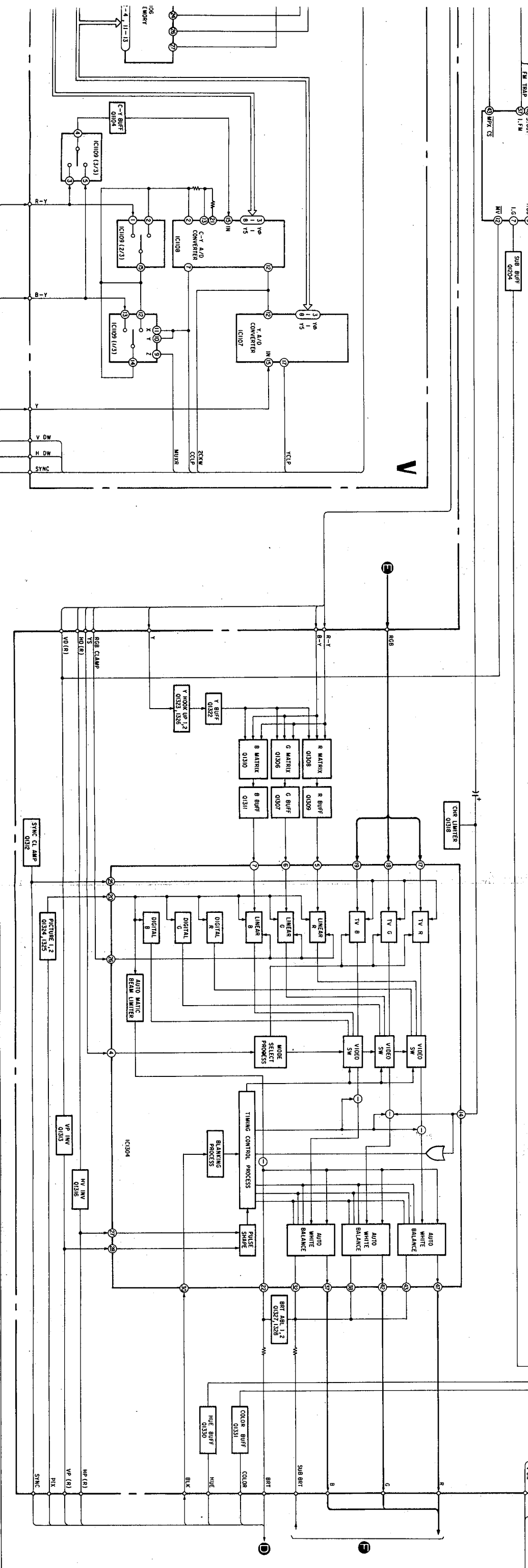
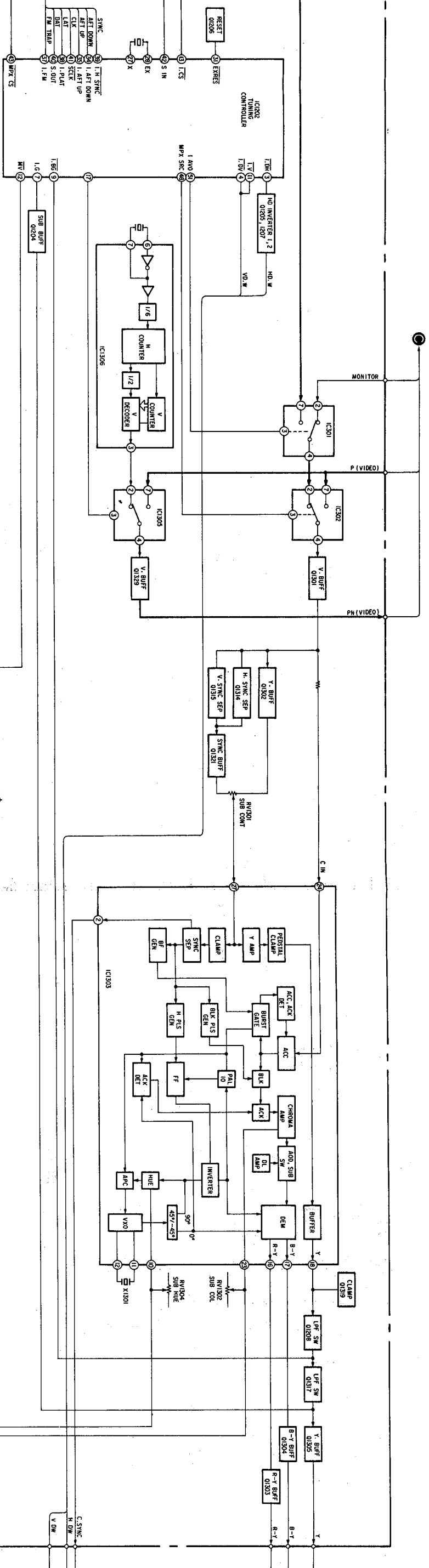
### 6-1. BLOCK DIAGRAM





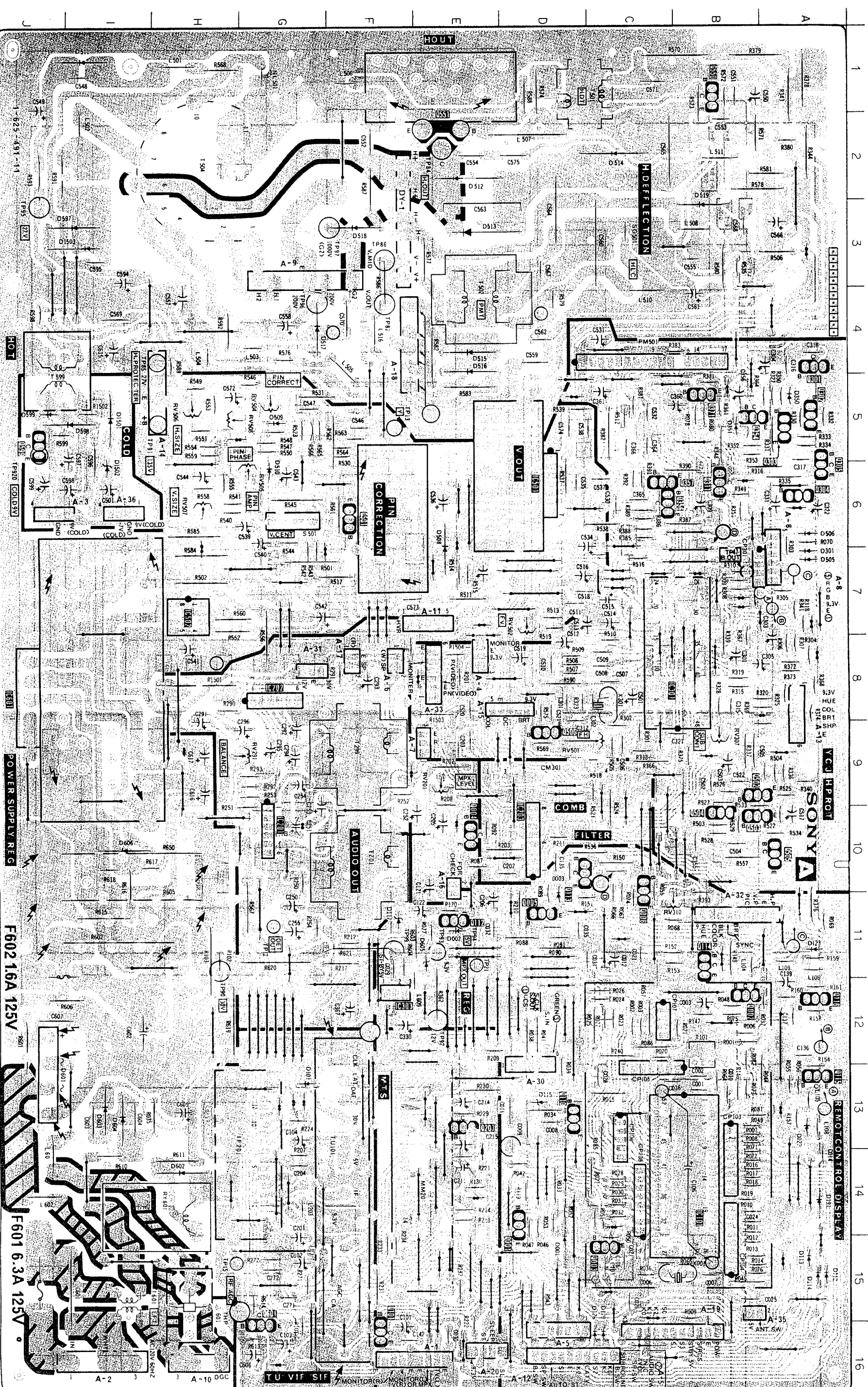






6.2. PRINTED WIRING BOARDS — Conductor Side —

— A Board —



A

PLL CONTROLLER DISPLAY, MEMORY,  
AF AMP, VIDEO SW, Y/C JUNGLE,  
V OUT, PIN MOD

C

[R-G OUT]

IC	D003
IC101	D101
IC201	D112
IC202	D113
IC203	D114
IC301	D115
IC303	D117
IC501	D124
IC502	D126
IC601	D129
	D191
	D301
	D350
	D351
	D505
	D506
	D508
	D509
	D510
	D511
	D512
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	D698
	D699
	D700

TRANSISTOR

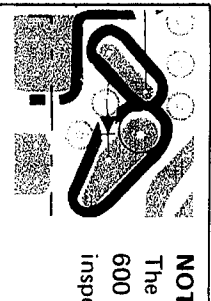
0001	D-14	D003
0002	B-12	D509
0003	C-15	D510
0004	E-10	D511
0005	D-11	D512
0006	C-10	D513
0101	F-16	D514
0110	D-13	D515
0112	E-11	D516
0113	D-10	D517
0114	B-11	D518
0116	A-12	D519
0203	E-13	D597
0301	A-4	D598
0302	A-5	D599
0303	A-6	D601
0304	A-6	D602
0305	A-6	D603
0311	B-6	D604
0354	B-5	D605
0356	C-6	D606
0357	C-6	D1501
0371	B-5	D1502
0501	F-6	D1503
0502	B-9	
0503	B-10	
0504	B-10	
0505	A-10	
0506	D-9	
0550	B-1	
0551	E-2	
0599	J-5	
0601	G-16	

VAR RES

RV201	
RV291	
RV307	
RV501	
RV502	
RV504	
RV505	
RV506	
RV507	

DIODE

D001	D-15
------	------

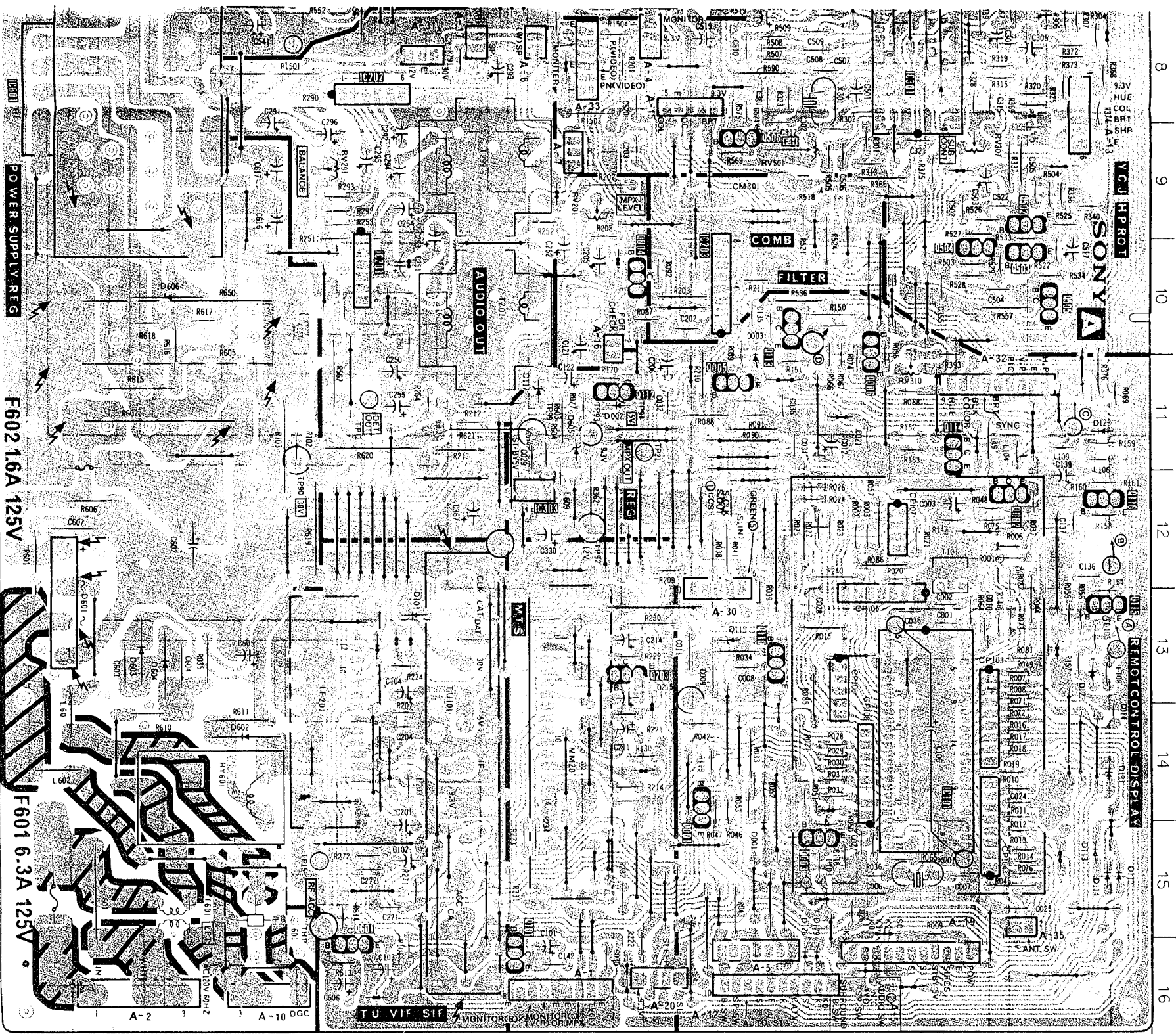


**A**

PLL CONTROLLER DISPLAY, MEMORY,  
AF AMP, VIDEO SW, Y/C JUNGLE,  
V OUT, PIN MOD

**C**

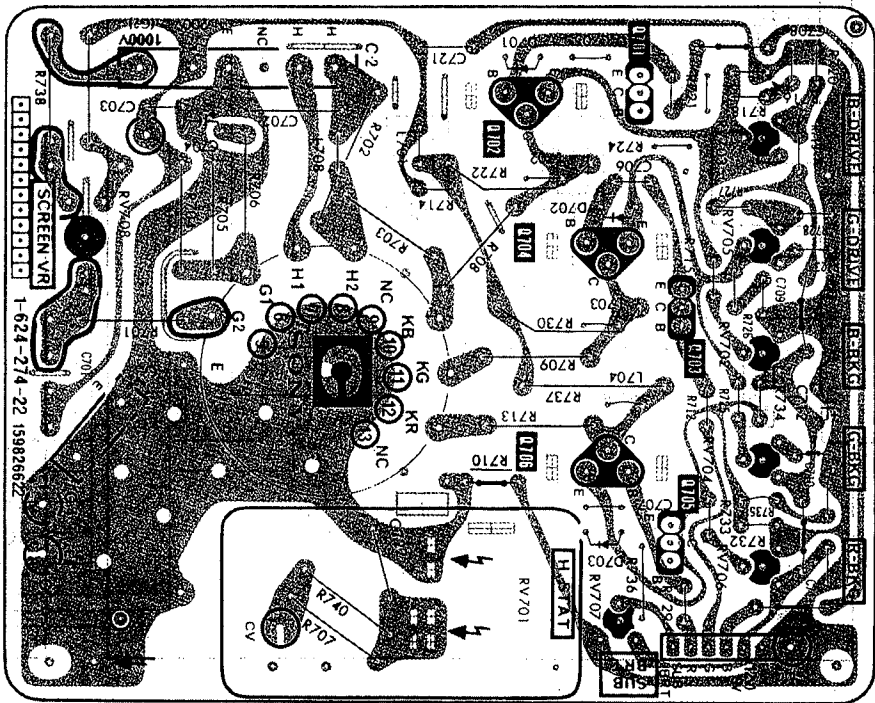
[R-G-B OUT]



IC		RV508 H-5	
IC101	B-14	D103	D-11
IC201	G-10	D101	G-13
IC202	G-8	D112	A-15
IC203	D-10	D113	A-15
IC301	C-8	D114	A-15
IC303	F-12	D115	D-13
IC501	D-6	D117	F-11
IC502	H-7	D124	D-10
IC601	J-8	D126	C-16
		D129	C-16
		D191	A-14
		D301	A-7
		D350	A-5
		D351	B-5
		D505	A-7
		D506	A-6
		D508	E-7
		D509	G-5
		D510	G-6
		D511	I-1
		D512	E-2
		D513	E-3
		D514	C-2
		D515	E-4
		D516	E-4
		D517	G-4
		D518	F-3
		D519	B-3
		D597	I-3
		D598	I-5
		D599	J-5
		D601	J-13
		D602	H-14
		D603	I-13
		D604	I-13
		D605	E-11
		D606	I-10
		D1501	I-5
		D1502	I-6
		D1503	I-3
TRANSISTOR		MODULE	
0001	D-14	D508	E-13
0002	B-12	D509	C-4
0003	C-15	D510	
0004	E-10	D511	
0005	D-11	D512	
0006	C-10	D513	
0101	F-16	D514	
0110	D-13	D515	
0112	E-11	D516	
0113	D-10	D517	
0114	B-11	D518	
0116	A-12	D519	
0203	E-13	D597	
0301	A-4	D598	
0302	A-5	D599	
0303	A-5	D601	
0304	A-6	D602	
0305	A-6	D603	
0311	B-6	D604	
0354	B-5	D605	
0356	C-6	D606	
0357	C-6	D1501	
0371	B-5	D1502	
0501	F-6	D1503	
0502	B-9		
0503	B-10		
0504	B-10		
0505	A-10		
0506	D-9		
0550	B-1		
0551	E-2		
0599	J-5		
0601	G-16		
DIODE		VARIABLE RESISTOR	
D001	D-15	RV201	E-9
		RV291	G-9
		RV307	B-9
		RV501	C-9
		RV502	D-7
		RV504	G-5
		RV505	G-6
		RV506	H-5
		RV507	H-6

**NOTE:**

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

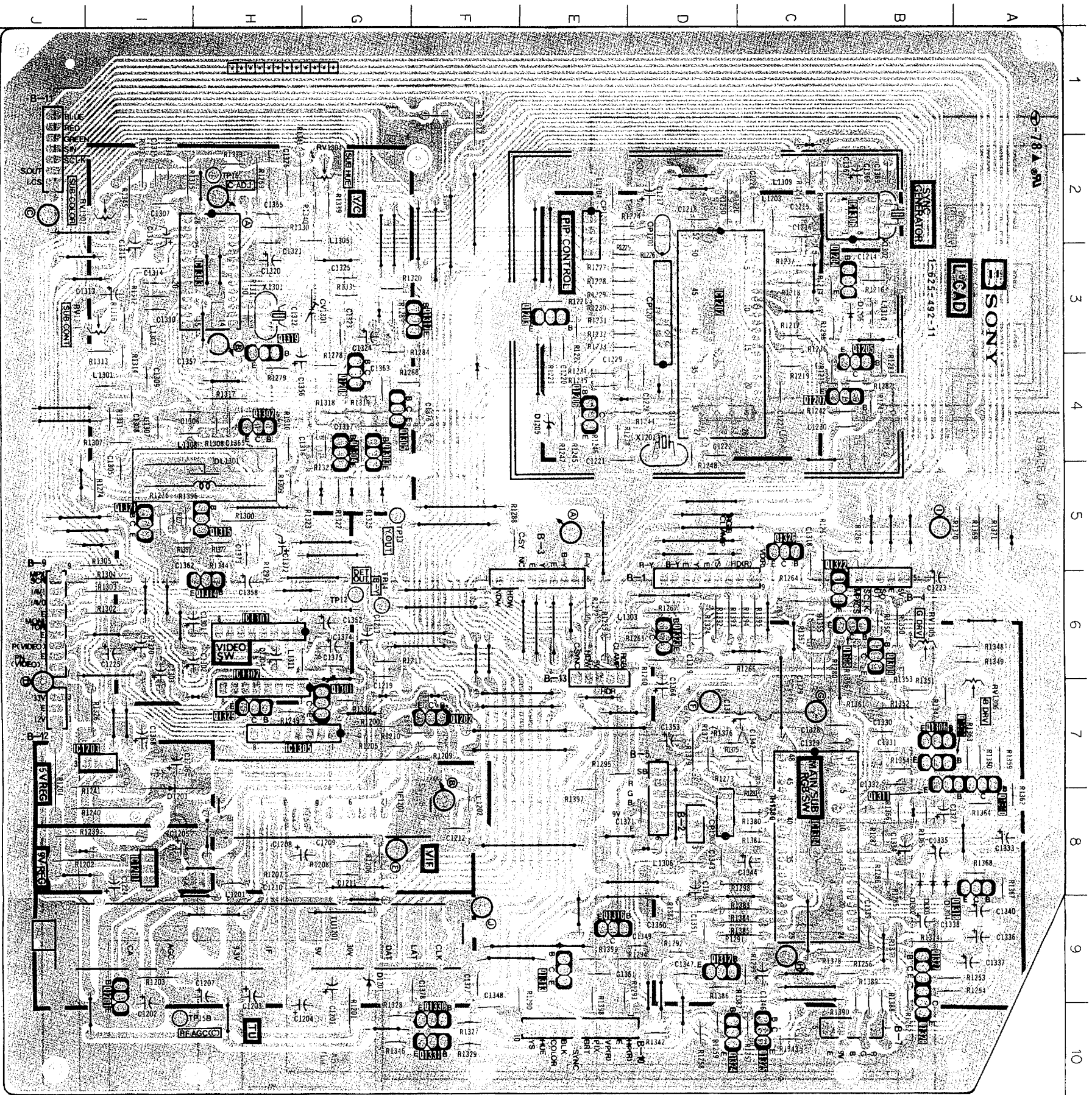


- C Board -



**B** R-G INTERFACE, V/C DECODER  
TUNING CONTROLLER, VIDEO SW  
C SYNC, 5V REG, 9.3V REG

— B Board — Conductor Side —



IC		DIODE	
IC1201	I-8	D1201	G-9
IC1202	D-3	D1203	I-8
IC1203	I-7	D1205	E-4
IC1301	H-6	D1206	B-3
IC1302	H-7	D1303	B-8
IC1303	H-3		
IC1304	C-8		
IC1305	H-7		
IC1306	B-2		
TRANSISTOR		VARIABLE RESISTOR	
Q1201	I-9	RV1301	I-3
Q1202	F-7	RV1302	I-2
Q1203	E-3	RV1304	G-2
Q1204	B-3	RV1305	B-6
Q1205	B-4	RV1306	A-7
Q1206	E-4		
Q1207	B-4		
Q1208	G-4		
Q1301	G-7		
Q1302	H-4		
Q1303	G-4		
Q1304	G-4		
Q1305	G-4		
Q1306	B-7		
Q1307	B-7		
Q1308	B-6		
Q1309	B-6		
Q1310	A-7		
Q1311	B-7		
Q1312	D-9		
Q1313	E-9		
Q1314	H-6		
Q1315	H-5		
Q1316	E-9		
Q1317	F-3		
Q1318	A-8		
Q1319	H-3		
Q1321	I-5		
Q1322	C-6		
Q1323	D-6		
Q1324	D-01		
Q1325	C-10		
Q1326	C-5		
Q1327	B-9		
Q1328	B-9		
Q1329	H-7		
Q1330	F-10		
Q1331	F-10		

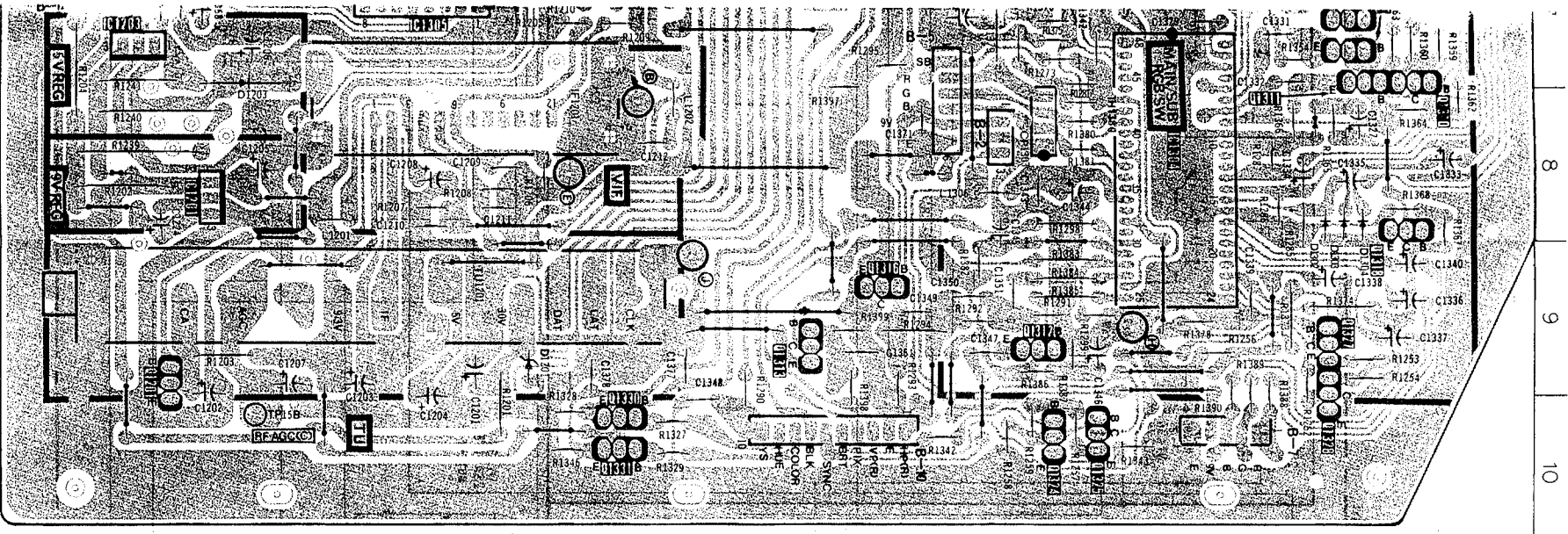
— V Board

— U1 Board

Y/C DECODER  
LER, VIDEO SW  
9.3V REG

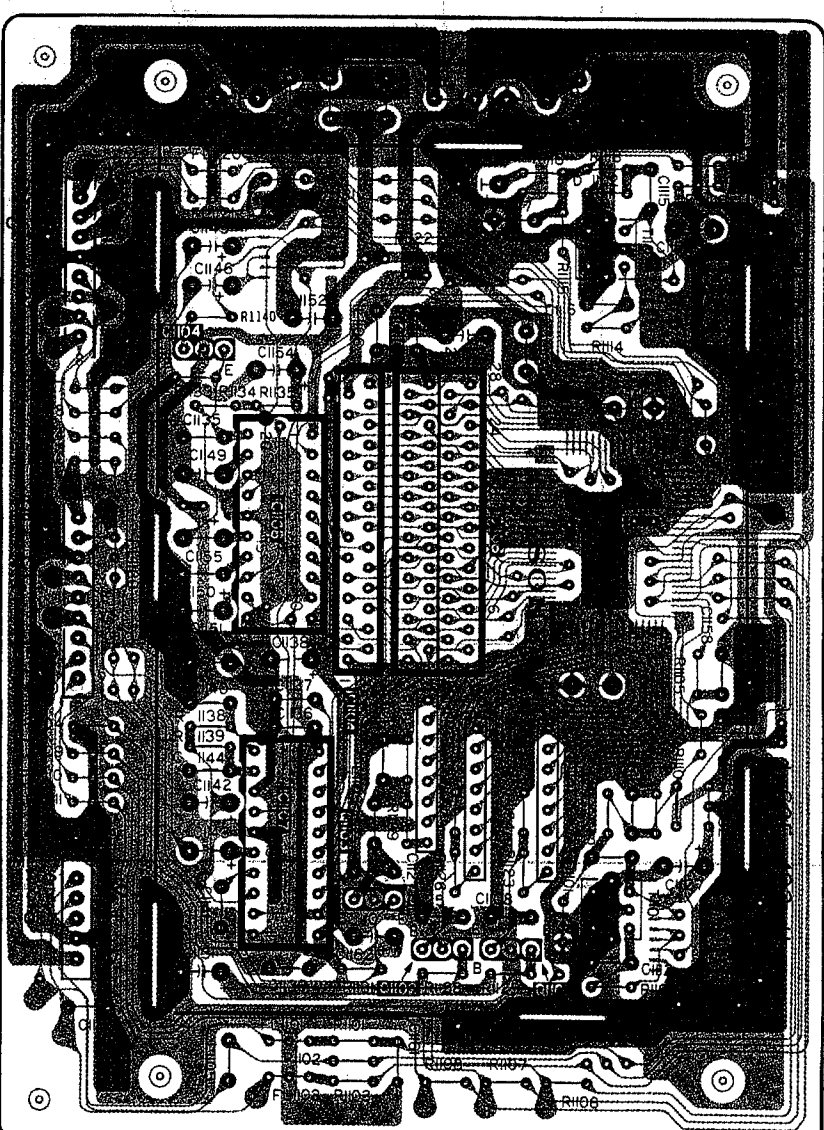
**V** MPX CONTROLLER, MEMORY, A/D CONVERTER, C-Y MULTIPLEX, WRT CLOCK OSC, READ CLOCK OSC

51

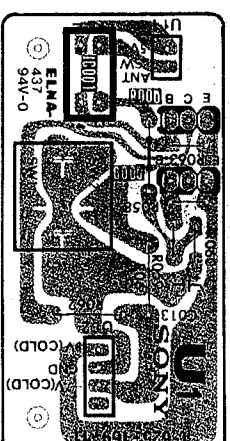


IC		DIODE	
1C1201	I-8	D1201	G-9
1C1202	D-3	D1203	I-8
1C1203	I-7	D1205	E-4
1C1301	H-6	D1206	B-3
1C1302	H-7	D1303	B-8
1C1303	H-3		
1C1304	C-8		
1C1305	H-7		
1C1306	B-2		
		VARIABLE RESISTOR	
TRANSISTOR		RV1301	I-3
Q1201	I-9	RV1302	I-2
Q1202	F-7	RV1304	G-2
Q1203	E-3	RV1305	B-6
Q1204	B-3	RV1306	A-7
Q1205	B-4		
Q1206	E-4		
Q1207	B-4		
Q1208	G-4		
Q1301	G-7		
Q1302	H-4		
Q1303	G-4		
Q1304	G-4		
Q1305	G-4		
Q1306	B-7		
Q1307	B-7		
Q1308	B-6		
Q1309	B-6		
Q1310	A-7		
Q1311	B-7		
Q1312	D-9		
Q1313	E-9		
Q1314	H-6		
Q1315	H-5		
Q1316	E-9		
Q1317	F-3		
Q1318	A-8		
Q1319	H-3		
Q1321	I-5		
Q1322	C-6		
Q1323	D-6		
Q1324	D-01		
Q1325	C-10		
Q1326	C-5		
Q1327	B-9		
Q1328	B-9		
Q1329	H-7		
Q1330	F-10		
Q1331	F-10		

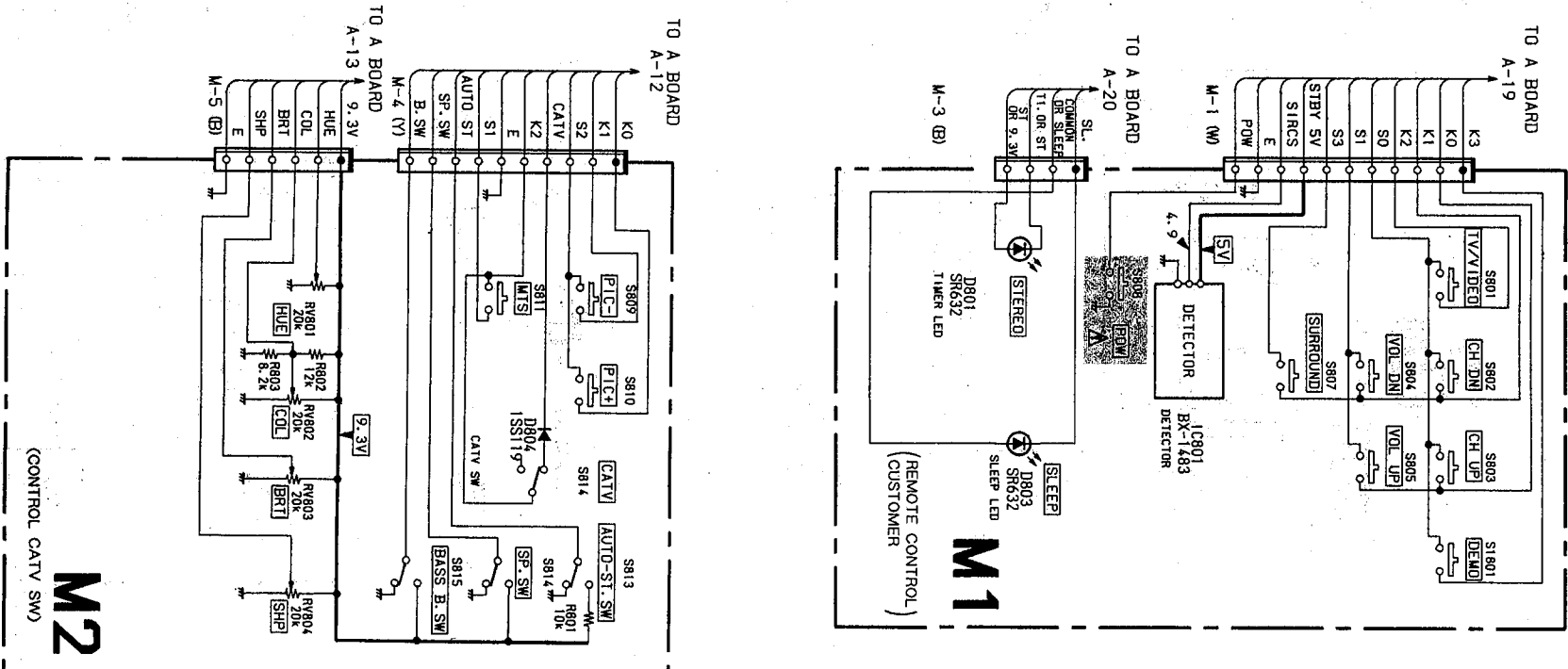
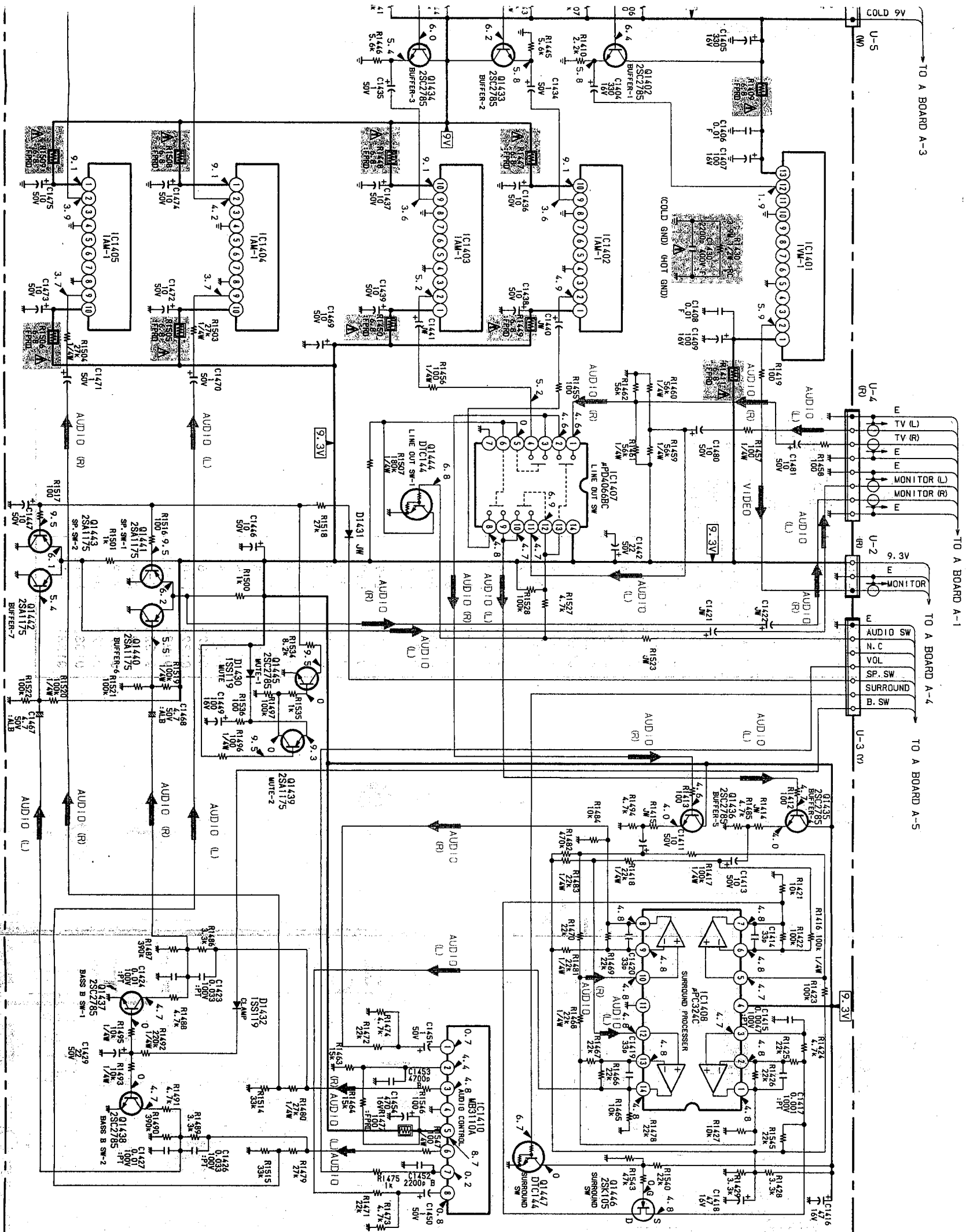
— V Board —



— U1 Board —













SECTION 7

EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

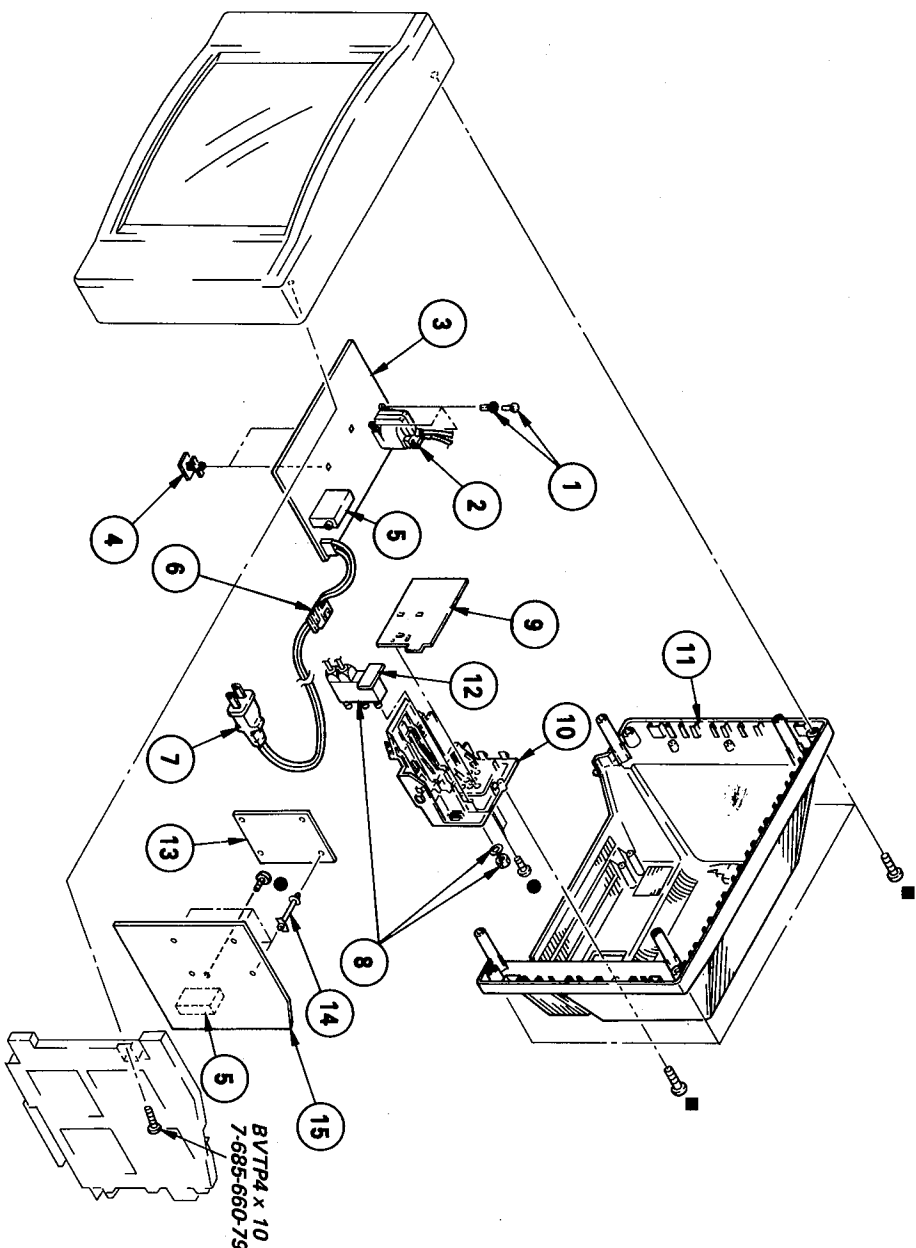
• Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. REAR COVER

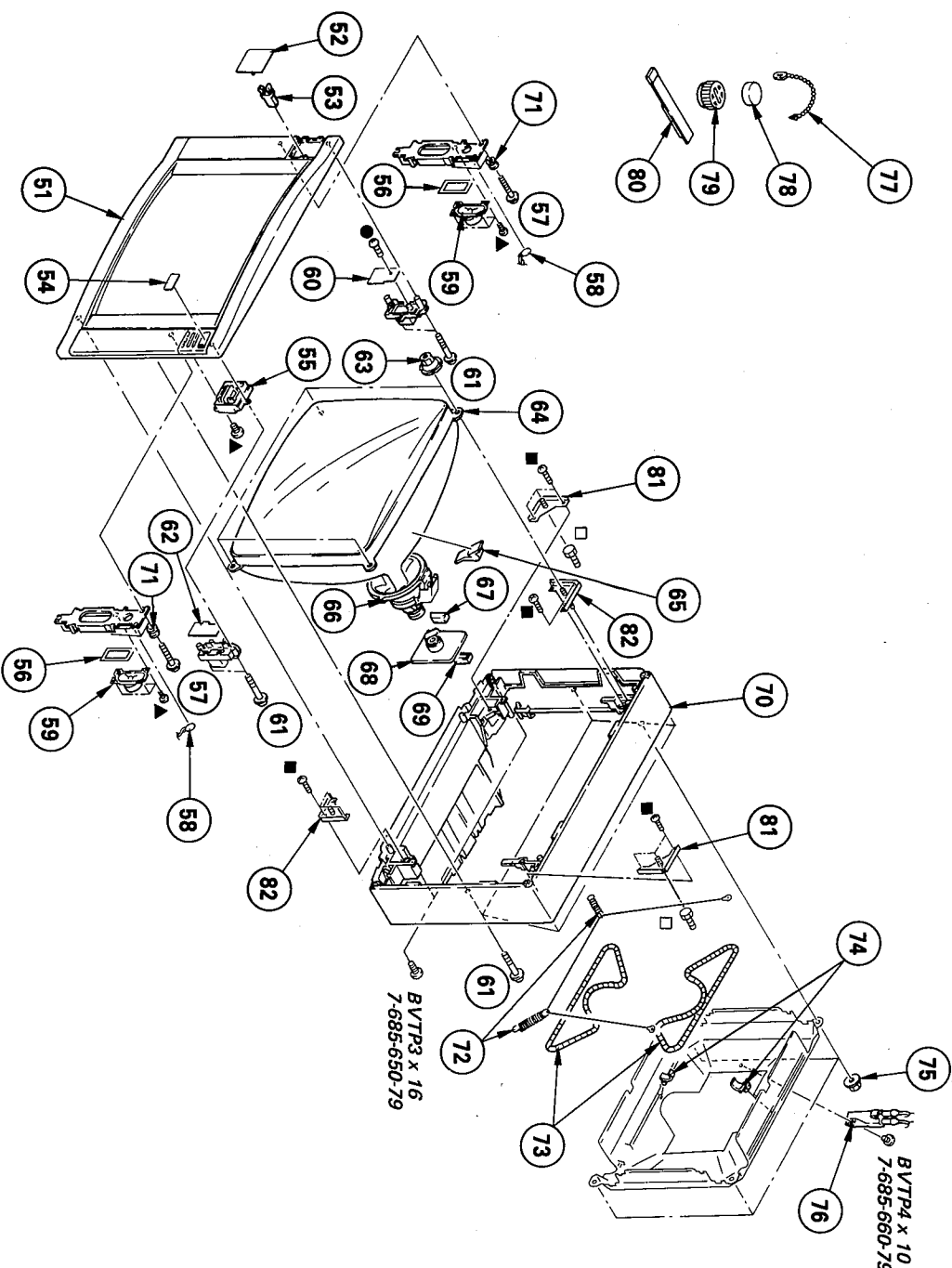
- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-685-663-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	3-531-576-31	RIVET (DIA. 3), NYLON		9	★A-1394-131-A	U BOARD, COMPLETE	
2	Δ 1-439-372-13	TRANSFORMER ASSY, FL YBACK		10	4-388-428-11	TERMINAL BOARD, ANTENNA	
3	★A-1296-423-A	A BOARD, COMPLETE		11	4-388-431-01	COVER, REAR	
4	★4-376-053-01	ANCHOR, PC BOARD		12	★1-625-169-11	U1 BOARD	
5	Δ 1-463-771-11	TUNER, ET (8TP-201A)		13	★A-1347-022-A	V BOARD, COMPLETE	
6	4-388-328-01	GROMMET, AC CORD		14	★3-716-104-01	SUPPORT, PC	
7	Δ 1-589-396-11	CORD, POWER		15	★A-1135-496-A	B BOARD, COMPLETE	
8	Δ 1-417-159-11	SELECTOR, ANTENNA					

7-2. PICTURE TUBE

- ▲ : BVTP4 x 12 7-685-661-14
- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-685-663-79
- : HEXAGON BOLT 5 x 20 7-683-340-07



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-4388-407-3	BEZEL ASSY	52-56	67	★4-379-167-01	COVER (MAIN), CV	
52	X-4388-405-1	DOOR ASSY, CONTROL		68	★A-1330-838-A	C BOARD, COMPLETE	
53	4-386-710-01	CATCHER, PUSH		69	★4-379-160-01	COVER (REAR LID), CV	
54	4-388-419-11	PLATE, INDICATION		70	4-388-430-41	CABINET	
55	4-388-432-11	BUTTON, MULTI		71	4-374-745-11	CUSHION (A)	
56	4-388-945-01	CUSHION, SP		72	4-369-318-00	SPRING, TENSION	
57	4-384-096-01	SCREW (4x16), TAPPING, +P		73	Δ 1-426-350-21	COIL, DEMAGNETIZATION	
58	1-529-062-11	BUZZER		74	★4-371-629-01	STOPPER, WIRE	
59	1-503-476-11	SPEAKER		75	4-306-034-00	FLANGE NUT, (B) 5MM	
60	★1-624-991-11	M2 BOARD		76	Δ 1-230-940-21	RESISTOR ASSY, HIGH-VOLTAGE	
61	4-319-520-11	SCREW, SPECIAL (+PM4X30)		77	4-308-870-00	CLIP, LEAD WIRE	
62	★1-624-992-11	M1 BOARD		78	1-452-032-00	MAGNET, ROTATABLE DISK: 15MM $\phi$	
63	4-376-980-01	NUT, SPECIAL, PICTURE TUBE		79	1-452-094-00	MAGNET, ROTATABLE DISK: 15MM $\phi$	
64	Δ 8-737-753-05	PICTURE TUBE (A68JM150X)		80	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
65	3-703-961-01	SPACER, DY		81	★4-376-989-01	BRACKET (E), PICTURE TUBE	
66	Δ 1-451-275-11	DEFLECTION YOKE (SY-158)		82	★4-379-197-01	BRACKET (H), PICTURE TUBE	

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## SECTION 8

## ELECTRICAL PARTS LIST

B

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

• All resistors are in ohms  
• F : nonflammable

When indicating parts by reference number, please include the board name.

## CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ PF

## COILS

• MMH : mH, UH :  $\mu$ H

• The components identified by  $\boxtimes$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• \* : Selected to yield optimum performance.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1135-496-A	B BOARD, COMPLETE *****		C1305	1-102-971-00	CERAMIC 82PF 5%	50V
	*1-560-125-00	PLUG, CONNECTOR (2.5MM PITCH)		C1306	1-102-976-00	CERAMIC 180PF 5%	50V
	*4-334-250-00	CASE, SHIELD (MAIN)		C1307	1-108-387-00	MYLAR 0.068MF 10%	100V
	*4-334-251-00	LID, UPPER, SHIELD CASE		C1308	1-102-816-00	CERAMIC 120PF 5%	50V
	*4-334-252-00	LID, REAR, SHIELD CASE		C1309	1-102-961-00	CERAMIC 27PF 5%	50V
<u>CONNECTOR</u>				C1310	1-102-963-00	CERAMIC 33PF 5%	50V
B1	*1-566-061-11	PIN, CONNECTOR 9P		C1311	1-123-875-11	ELECT 10MF 20%	50V
B2	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)		C1312	1-124-902-00	ELECT 0.47MF 20%	50V
B3	*1-566-060-11	PIN, CONNECTOR 8P		C1313	1-124-902-00	ELECT 0.47MF 20%	50V
B4	*1-566-057-11	PIN, CONNECTOR 5P		C1314	1-101-004-00	CERAMIC 0.01MF	50V
B5	*1-566-058-11	PIN, CONNECTOR 6P		C1315	1-101-004-00	CERAMIC 0.01MF	50V
B7	*1-566-057-11	PIN, CONNECTOR 5P		C1316	1-102-971-00	CERAMIC 82PF 5%	50V
B9	*1-566-058-11	PIN, CONNECTOR 6P		C1317	1-101-888-00	CERAMIC 68PF 5%	50V
B10	*1-566-061-11	PIN, CONNECTOR 9P		C1318	1-102-816-00	CERAMIC 120PF 5%	50V
B11	*1-566-057-11	PIN, CONNECTOR 5P		C1319	1-102-976-00	CERAMIC 180PF 5%	50V
B12	*1-566-055-11	PIN, CONNECTOR 3P		C1320	1-124-963-11	ELECT 33MF 20%	16V
<u>CAPACITOR</u>				C1321	1-101-004-00	CERAMIC 0.01MF	50V
C1201	1-123-875-11	ELECT 10MF 20%	50V	C1322	1-102-949-00	CERAMIC 12PF 5%	50V
C1202	1-123-875-11	ELECT 10MF 20%	50V	C1323	1-102-959-00	CERAMIC 22PF 5%	50V
C1203	1-124-119-00	ELECT 330MF 20%	16V	C1324	1-124-499-11	ELECT 1MF 20%	50V
C1204	1-126-101-11	ELECT 100MF 20%	16V	C1325	1-106-367-00	MYLAR 0.01MF 10%	100V
C1205	1-124-119-00	ELECT 330MF 20%	16V	C1326	1-101-004-00	CERAMIC 0.01MF	50V
C1206	1-124-472-11	ELECT 470MF 20%	10V	C1327	1-123-875-11	ELECT 10MF 20%	50V
C1207	1-124-908-11	ELECT 22MF 20%	50V	C1328	1-101-004-00	CERAMIC 0.01MF	50V
C1208	1-126-101-11	ELECT 100MF 20%	16V	C1329	1-101-004-00	CERAMIC 0.01MF	50V
C1209	1-102-121-00	CERAMIC 0.0022MF 10%	50V	C1330	1-106-383-00	MYLAR 0.047MF 10%	100V
C1210	1-101-003-00	CERAMIC 0.0047MF	50V	C1331	1-106-383-00	MYLAR 0.047MF 10%	100V
C1211	1-101-003-00	CERAMIC 0.0047MF	50V	C1332	1-106-383-00	MYLAR 0.047MF 10%	100V
C1212	1-102-953-00	CERAMIC 18PF 5%	50V	C1334	1-124-463-00	ELECT 0.1MF 20%	50V
C1213	1-124-499-11	ELECT 1MF 20%	50V	C1336	1-124-464-11	ELECT 0.22MF 20%	50V
C1214	1-102-959-00	CERAMIC 22PF 5%	50V	C1337	1-124-464-11	ELECT 0.22MF 20%	50V
C1215	1-102-961-00	CERAMIC 27PF 5%	50V	C1338	1-124-902-00	ELECT 0.47MF 20%	50V
C1216	1-102-965-00	CERAMIC 39PF 5%	50V	C1339	1-101-004-00	CERAMIC 0.01MF	50V
C1217	1-124-472-11	ELECT 470MF 20%	10V	C1340	1-124-464-11	ELECT 0.22MF 20%	50V
C1218	1-101-004-00	CERAMIC 0.01MF	50V	C1341	1-123-875-11	ELECT 10MF 20%	50V
C1219	1-101-002-00	CERAMIC 0.0022MF	50V	C1342	1-101-004-00	CERAMIC 0.01MF	50V
C1220	1-102-973-00	CERAMIC 100PF 5%	50V	C1343	1-101-004-00	CERAMIC 0.01MF	50V
C1221	1-101-880-00	CERAMIC 47PF 5%	50V	C1344	1-124-477-11	ELECT 47MF 20%	16V
C1222	1-101-880-00	CERAMIC 47PF 5%	50V	C1345	1-124-963-11	ELECT 33MF 20%	16V
C1223	1-124-477-11	ELECT 47MF 20%	16V	C1346	1-123-875-11	ELECT 10MF 20%	50V
C1224	1-126-101-11	ELECT 100MF 20%	16V	C1347	1-106-351-00	MYLAR 0.0022MF 10%	100V
C1225	1-126-101-11	ELECT 100MF 20%	16V	C1349	1-102-971-00	CERAMIC 82PF 5%	50V
C1230	1-102-816-00	CERAMIC 120PF 5%	50V	C1350	1-102-961-00	CERAMIC 27PF 5%	50V
C1231	1-102-978-00	CERAMIC 220PF 5%	50V	C1351	1-106-383-00	MYLAR 0.047MF 10%	100V
C1301	1-124-477-11	ELECT 47MF 20%	16V	C1352	1-124-477-11	ELECT 47MF 20%	16V
C1302	1-124-477-11	ELECT 47MF 20%	16V	C1353	1-123-875-11	ELECT 10MF 20%	50V
C1303	1-124-477-11	ELECT 47MF 20%	16V	C1355	1-106-383-00	MYLAR 0.047MF 10%	100V
C1304	1-124-477-11	ELECT 47MF 20%	16V	C1356	1-123-875-11	ELECT 10MF 20%	50V
				C1357	1-130-495-00	MYLAR 0.1MF 5%	50V
				C1358	1-124-499-11	ELECT 1MF 20%	50V
				C1362	1-106-351-00	MYLAR 0.0022MF 10%	100V
				C1363	1-102-816-00	CERAMIC 120PF 5%	50V
				C1364	1-124-499-11	ELECT 1MF 20%	50V

B

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C1365	1-102-971-00	CERAMIC 82PF	5% 50V	TRANSISTOR			
C1366	1-124-963-11	ELECT 33MF	20% 16V	Q1201	8-729-900-36	TRANSISTOR DTC124ES	
C1367	1-101-004-00	CERAMIC 0.01MF	50V	Q1202	8-729-178-54	TRANSISTOR 2SC2785	
C1368	1-124-963-11	ELECT 33MF	20% 16V	Q1203	8-729-117-54	TRANSISTOR 2SA1175	
C1369	1-101-884-00	CERAMIC 56PF	5% 50V	Q1204	8-729-178-54	TRANSISTOR 2SC2785	
C1370	1-124-963-11	ELECT 33MF	20% 16V	Q1205	8-729-178-54	TRANSISTOR 2SC2785	
C1371	1-101-004-00	CERAMIC 0.01MF	50V	Q1206	8-729-117-54	TRANSISTOR 2SA1175	
C1372	1-124-902-00	ELECT 0.47MF	20% 50V	Q1207	8-729-117-54	TRANSISTOR 2SA1175	
C1373	1-106-383-00	MYLAR 0.047MF	10% 100V	Q1208	8-729-178-54	TRANSISTOR 2SC2785	
C1374	1-123-875-11	ELECT 10MF	20% 50V	Q1301	8-729-178-54	TRANSISTOR 2SC2785	
C1375	1-101-004-00	CERAMIC 0.01MF	50V	Q1302	8-729-117-54	TRANSISTOR 2SA1175	
C1376	1-102-973-00	CERAMIC 100PF	5% 50V	Q1303	8-729-117-54	TRANSISTOR 2SA1175	
C1377	1-101-004-00	CERAMIC 0.01MF	50V	Q1304	8-729-117-54	TRANSISTOR 2SA1175	
C1378	1-101-004-00	CERAMIC 0.01MF	50V	Q1305	8-729-117-54	TRANSISTOR 2SA1175	
C1379	1-102-976-00	CERAMIC 180PF	5% 50V	Q1306	8-729-178-54	TRANSISTOR 2SC2785	
TRIMMER				Q1307	8-729-178-54	TRANSISTOR 2SC2785	
CV1301	1-141-181-11	CAP, TRIMMER		Q1308	8-729-178-54	TRANSISTOR 2SC2785	
DIODE				Q1309	8-729-178-54	TRANSISTOR 2SC2785	
D1201	8-719-110-78	DIODE RD33ES-82		Q1310	8-729-178-54	TRANSISTOR 2SC2785	
D1203	8-719-920-04	DIODE ERB12-04RK		Q1311	8-729-178-54	TRANSISTOR 2SC2785	
D1205	8-719-101-39	DIODE RD3.6E-L2		Q1312	8-729-178-54	TRANSISTOR 2SC2785	
D1206	8-719-911-19	DIODE 1SS119		Q1313	8-729-178-54	TRANSISTOR 2SC2785	
DELAY LINE				Q1314	8-729-117-54	TRANSISTOR 2SA1175	
DL1301	1-415-240-00	DELAY LINE		Q1315	8-729-117-54	TRANSISTOR 2SA1175	
IC				Q1316	8-729-178-54	TRANSISTOR 2SC2785	
IC1201	8-759-710-04	IC NJM78M93FD		Q1317	8-729-178-54	TRANSISTOR 2SC2785	
IC1202	8-759-970-06	IC MB88E732-110		Q1318	8-729-178-54	TRANSISTOR 2SC2785	
IC1203	8-759-171-05	IC UPC7805H		Q1319	8-729-178-54	TRANSISTOR 2SC2785	
IC1301	8-759-006-10	IC CX20061		Q1321	8-729-178-54	TRANSISTOR 2SC2785	
IC1302	8-759-006-10	IC CX20061		Q1322	8-729-117-54	TRANSISTOR 2SA1175	
IC1303	8-752-033-32	IC CXA1228S		Q1323	8-729-117-54	TRANSISTOR 2SA1175	
IC1304	8-752-030-31	IC CXA1024S		Q1324	8-729-178-54	TRANSISTOR 2SC2785	
IC1305	8-759-006-10	IC CX20061		Q1325	8-729-117-54	TRANSISTOR 2SA1175	
IC1306	8-759-970-78	MSM5256RS		Q1326	8-729-178-54	TRANSISTOR 2SC2785	
IF BLOCK				Q1327	8-729-117-54	TRANSISTOR 2SA1175	
IF1201	1-464-598-11	IF BLOCK (IFB-450M)		Q1328	8-729-117-54	TRANSISTOR 2SA1175	
COIL				Q1329	8-729-117-54	TRANSISTOR 2SA1175	
L1201	1-410-469-21	INDUCTOR 8.2UH		Q1330	8-729-178-54	TRANSISTOR 2SC2785	
L1202	1-410-476-11	INDUCTOR 33UH		Q1331	8-729-178-54	TRANSISTOR 2SC2785	
L1203	1-410-474-21	INDUCTOR 22UH		RESISTOR			
L1204	1-410-470-11	INDUCTOR 10UH		R1200	1-247-712-11	CARBON 820 5% 1/4W	
L1301	1-410-476-11	INDUCTOR 33UH		R1201	1-247-713-11	CARBON 1K 5% 1/4W	
L1302	1-410-473-11	INDUCTOR 18UH		R1203	1-247-722-11	CARBON 5.6K 5% 1/4W	
L1303	1-410-482-31	INDUCTOR 100UH		R1204	1-216-373-11	METAL OXIDE 2.2 5% 2W	F
L1305	1-410-470-11	INDUCTOR 10UH		R1205	1-215-453-00	METAL 22K 1% 1/6W	
L1306	1-410-470-11	INDUCTOR 10UH		R1206	1-215-453-00	METAL 22K 1% 1/6W	
L1307	1-408-424-00	INDUCTOR 180UH		R1207	1-249-433-11	CARBON 22K 5% 1/4W	
L1308	1-408-424-001	INDUCTOR 180UH		R1208	1-249-433-11	CARBON 22K 5% 1/4W	
L1309	1-410-470-11	INDUCTOR 10UH		R1209	1-249-405-11	CARBON 100 5% 1/4W	
L1310	1-410-470-11	INDUCTOR 10UH		R1210	1-249-402-11	CARBON 56 5% 1/4W	
L1311	1-410-470-11	INDUCTOR 10UH		R1211	1-249-411-11	CARBON 330 5% 1/4W	
				R1212	1-247-704-11	CARBON 220 5% 1/4W	
				R1213	1-249-409-11	CARBON 220 5% 1/4W	
				R1214	1-249-417-11	CARBON 1K 5% 1/4W	
				R1215	1-249-421-11	CARBON 2.2K 5% 1/4W	
				R1216	1-249-420-11	CARBON 1.8K 5% 1/4W	
				R1217	1-249-429-11	CARBON 10K 5% 1/4W	
				R1218	1-249-417-11	CARBON 1K 5% 1/4W	
				R1219	1-249-429-11	CARBON 10K 5% 1/4W	
				R1220	1-247-725-11	CARBON 10K 5% 1/4W	
				R1221	1-249-440-11	CARBON 82K 5% 1/4W	
				R1222	1-247-891-00	CARBON 330K 5% 1/4W	

B

Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R1223	1-249-429-11	CARBON	10K	5%	1/4W		R1296	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1224	1-249-417-11	CARBON	1K	5%	1/4W		R1297	1-249-415-11	CARBON	680	5%	1/4W	
R1225	1-249-417-11	CARBON	1K	5%	1/4W		R1298	1-247-713-11	CARBON	1K	5%	1/4W	
R1226	1-249-417-11	CARBON	1K	5%	1/4W		R1300	1-259-871-15	CARBON	6.8M	5%	1/4W	
R1227	1-249-409-11	CARBON	220	5%	1/4W		R1302	1-247-704-11	CARBON	220	5%	1/4W	
R1228	1-249-421-11	CARBON	2.2K	5%	1/4W		R1306	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1229	1-249-409-11	CARBON	220	5%	1/4W		R1307	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1230	1-249-409-11	CARBON	220	5%	1/4W		R1308	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1231	1-249-429-11	CARBON	10K	5%	1/4W		R1309	1-249-417-11	CARBON	1K	5%	1/4W	
R1232	1-249-421-11	CARBON	2.2K	5%	1/4W		R1310	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1233	1-249-421-11	CARBON	2.2K	5%	1/4W		R1311	1-249-414-11	CARBON	560	5%	1/4W	
R1234	1-249-421-11	CARBON	2.2K	5%	1/4W		R1312	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1235	1-249-421-11	CARBON	2.2K	5%	1/4W		R1313	1-249-417-11	CARBON	1K	5%	1/4W	
R1236	1-249-429-11	CARBON	10K	5%	1/4W		R1314	1-249-417-11	CARBON	1K	5%	1/4W	
R1237	1-249-417-11	CARBON	1K	5%	1/4W		R1315	1-246-541-00	CARBON	680K	5%	1/4W	
R1238	1-249-429-11	CARBON	10K	5%	1/4W		R1316	1-247-887-00	CARBON	220K	5%	1/4W	
R1240	1-215-905-11	METAL OXIDE	10	5%	3W	F	R1317	1-247-719-11	CARBON	3.3K	5%	1/4W	
R1241	1-215-859-00	METAL OXIDE	22	5%	1W	F	R1318	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1242	1-249-429-11	CARBON	10K	5%	1/4W		R1319	1-249-429-11	CARBON	10K	5%	1/4W	
R1243	1-249-425-11	CARBON	4.7K	5%	1/4W		R1320	1-249-417-11	CARBON	1K	5%	1/4W	
R1244	1-249-421-11	CARBON	2.2K	5%	1/4W		R1321	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1245	1-249-425-11	CARBON	4.7K	5%	1/4W		R1322	1-249-417-11	CARBON	1K	5%	1/4W	
R1246	1-249-433-11	CARBON	22K	5%	1/4W		R1323	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1247	1-249-414-11	CARBON	560	5%	1/4W		R1324	1-247-708-11	CARBON	470	5%	1/4W	
R1248	1-249-416-11	CARBON	820	5%	1/4W		R1325	1-249-417-11	CARBON	1K	5%	1/4W	
R1250	1-247-717-11	CARBON	2.2K	5%	1/4W		R1326	1-247-713-11	CARBON	1K	5%	1/4W	
R1251	1-249-415-11	CARBON	680	5%	1/4W		R1327	1-249-417-11	CARBON	1K	5%	1/4W	
R1252	1-249-414-11	CARBON	560	5%	1/4W		R1328	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1253	1-249-434-11	CARBON	27K	5%	1/4W		R1329	1-249-417-11	CARBON	1K	5%	1/4W	
R1254	1-249-421-11	CARBON	2.2K	5%	1/4W		R1330	1-249-433-11	CARBON	22K	5%	1/4W	
R1255	1-249-421-11	CARBON	2.2K	5%	1/4W		R1331	1-249-431-11	CARBON	15K	5%	1/4W	
R1256	1-249-423-11	CARBON	3.3K	5%	1/4W		R1332	1-249-435-11	CARBON	33K	5%	1/4W	
R1257	1-249-416-11	CARBON	820	5%	1/4W		R1333	1-249-429-11	CARBON	10K	5%	1/4W	
R1258	1-249-433-11	CARBON	22K	5%	1/4W		R1334	1-249-429-11	CARBON	10K	5%	1/4W	
R1259	1-249-416-11	CARBON	820	5%	1/4W		R1335	1-249-431-11	CARBON	15K	5%	1/4W	
R1260	1-249-416-11	CARBON	820	5%	1/4W		R1336	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1261	1-247-710-11	CARBON	560	5%	1/4W		R1339	1-249-429-11	CARBON	10K	5%	1/4W	
R1262	1-249-414-11	CARBON	560	5%	1/4W		R1340	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1263	1-249-419-11	CARBON	1.5K	5%	1/4W		R1341	1-247-720-11	CARBON	3.9K	5%	1/4W	
R1264	1-249-414-11	CARBON	560	5%	1/4W		R1342	1-249-415-11	CARBON	680	5%	1/4W	
R1265	1-249-418-11	CARBON	1.2K	5%	1/4W		R1343	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1266	1-247-715-11	CARBON	1.5K	5%	1/4W		R1344	1-249-411-11	CARBON	330	5%	1/4W	
R1267	1-247-704-11	CARBON	220	5%	1/4W		R1345	1-247-723-11	CARBON	6.8K	5%	1/4W	
R1268	1-249-411-11	CARBON	330	5%	1/4W		R1346	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1269	1-246-543-00	CARBON	820K	5%	1/4W		R1347	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1272	1-249-421-11	CARBON	2.2K	5%	1/4W		R1348	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1273	1-249-422-11	CARBON	2.7K	5%	1/4W		R1349	1-249-429-11	CARBON	10K	5%	1/4W	
R1274	1-247-700-11	CARBON	100	5%	1/4W		R1350	1-247-720-11	CARBON	3.9K	5%	1/4W	
R1276	1-249-417-11	CARBON	1K	5%	1/4W		R1351	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1277	1-249-428-11	CARBON	8.2K	5%	1/4W		R1352	1-247-712-11	CARBON	820	5%	1/4W	
R1278	1-249-429-11	CARBON	10K	5%	1/4W		R1353	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1279	1-249-428-11	CARBON	8.2K	5%	1/4W		R1354	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1280	1-249-429-11	CARBON	10K	5%	1/4W		R1355	1-247-720-11	CARBON	3.9K	5%	1/4W	
R1281	1-249-419-11	CARBON	1.5K	5%	1/4W		R1356	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1282	1-249-424-11	CARBON	3.9K	5%	1/4W		R1357	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1283	1-249-417-11	CARBON	1K	5%	1/4W		R1358	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1284	1-249-419-11	CARBON	1.5K	5%	1/4W		R1359	1-249-424-11	CARBON	3.9K	5%	1/4W	
R1286	1-249-437-11	CARBON	47K	5%	1/4W		R1360	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1288	1-249-417-11	CARBON	1K	5%	1/4W		R1361	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1289	1-249-414-11	CARBON	560	5%	1/4W		R1362	1-249-417-11	CARBON	1K	5%	1/4W	
R1291	1-249-431-11	CARBON	15K	5%	1/4W		R1363	1-249-418-11	CARBON	1.2K	5%	1/4W	
R1292	1-249-437-11	CARBON	47K	5%	1/4W		R1364	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1293	1-249-429-11	CARBON	10K	5%	1/4W		R1365	1-249-436-11	CARBON	39K	5%	1/4W	
R1294	1-249-465-11	CARBON	47K	5%	1/4W		R1366	1-249-422-11	CARBON	2.7K	5%	1/4W	
R1295	1-249-421-11	CARBON	2.2K	5%	1/4W		R1367	1-249-441-11	CARBON	100K	5%	1/4W	

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Ref.No.	Part No.	Description	Remark
R1368	1-249-436-11	CARBON 39K 5% 1/4W	
R1370	1-247-704-11	CARBON 220 5% 1/4W	
R1372	1-249-435-11	CARBON 33K 5% 1/4W	
R1373	1-247-713-11	CARBON 1K 5% 1/4W	
R1374	1-249-462-11	CARBON 22K 5% 1/4W	
R1375	1-249-427-11	CARBON 6.8K 5% 1/4W	
R1376	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1377	1-249-422-11	CARBON 2.7K 5% 1/4W	
R1378	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1379	1-247-711-11	CARBON 680 5% 1/4W	
R1380	1-249-415-11	CARBON 680 5% 1/4W	
R1381	1-249-415-11	CARBON 680 5% 1/4W	
R1382	1-249-438-11	CARBON 56K 5% 1/4W	
R1383	1-247-717-11	CARBON 2.2K 5% 1/4W	
R1384	1-247-713-11	CARBON 1K 5% 1/4W	
R1385	1-247-713-11	CARBON 1K 5% 1/4W	
R1386	1-249-433-11	CARBON 22K 5% 1/4W	
R1387	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1388	1-249-409-11	CARBON 220 5% 1/4W	
R1389	1-249-409-11	CARBON 220 5% 1/4W	
R1390	1-249-409-11	CARBON 220 5% 1/4W	
R1391	1-247-889-00	CARBON 270K 5% 1/4W	
R1392	1-247-713-11	CARBON 1K 5% 1/4W	
R1393	1-247-717-11	CARBON 2.2K 5% 1/4W	
R1394	1-247-704-11	CARBON 220 5% 1/4W	
R1395	1-247-704-11	CARBON 220 5% 1/4W	
R1396	1-249-429-11	CARBON 10K 5% 1/4W	
R1397	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1398	1-249-435-11	CARBON 33K 5% 1/4W	
R1399	1-249-429-11	CARBON 10K 5% 1/4W	

## VARIABLE RESISTOR

RV1301	1-238-015-11	RES, ADJ, CARBON 4.7K
RV1302	1-238-017-11	RES, ADJ, CARBON 22K
RV1304	1-238-017-11	RES, ADJ, CARBON 22K
RV1305	1-238-011-11	RES, ADJ, CARBON 470
RV1306	1-238-011-11	RES, ADJ, CARBON 470

## THERMISTOR

TH1301	1-807-976-11	THERMISTOR
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## TUNER

TU1201	1-463-771-11	TUNER, ET (BTP-201A)
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## CRYSTAL

X1201	1-567-192-11	OSCILLATOR, CERAMIC
X1301	1-567-505-11	OSCILLATOR, CRYSTAL
X1302	1-577-099-11	VIBRATOR, CERAMIC

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\*A-1296-423-A A BOARD, COMPLETE  
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\*4-336-030-00 CASE (MAIN), SHIELD, VIF  
\*4-341-751-01 PAWL  
\*4-341-751-01 PAWL  
\*4-341-752-01 EYELET  
\*4-356-327-00 CASE (LOWER), SHIELD, VIF  
\*4-362-028-00 CASE (UPPER), SHIELD, VIF

Ref.No.	Part No.	Description	Remark
CONNECTOR			
A1	*1-566-060-11	PIN, CONNECTOR 8P	
A2	*1-506-349-21	3P PLUG (L)	
A3	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
A4	*1-566-055-11	PIN, CONNECTOR 3P	
A5	*1-566-059-11	PIN, CONNECTOR 7P	
A6	*1-566-054-11	PIN, CONNECTOR 2P	
A7	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
A8	*1-566-057-11	PIN, CONNECTOR 5P	
A9	*1-508-768-00	6P PLUG	
A10	*1-508-765-00	3P PLUG (M)	
A11	*1-566-057-11	PIN, CONNECTOR 5P	
A12	*1-566-062-11	PIN, CONNECTOR 10P	
A13	*1-566-058-11	PIN, CONNECTOR 6P	
A14	*1-508-766-00	4P PLUG (M)	
A15	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P	
A16	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
A17	*1-566-054-11	PIN, CONNECTOR 2P	
A18	*1-508-767-00	5P PLUG	
A19	*1-566-063-11	PIN, CONNECTOR 11P	
A20	*1-566-056-11	PIN, CONNECTOR 4P	
A30	*1-566-057-11	PIN, CONNECTOR 5P	
A31	*1-566-055-11	PIN, CONNECTOR 3P	
A32	*1-566-061-11	PIN, CONNECTOR 9P	
A33	*1-566-058-11	PIN, CONNECTOR 6P	
A35	*1-566-054-11	PIN, CONNECTOR 2P	
A36	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	
DY1	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P	
CAPACITOR			
C001	1-102-961-00	CERAMIC 27PF 5% 50V	
C002	1-102-965-00	CERAMIC 39PF 5% 50V	
C003	1-124-927-11	ELECT 4.7MF 20% 50V	
C006	1-101-880-00	CERAMIC 47PF 5% 50V	
C007	1-101-880-00	CERAMIC 47PF 5% 50V	
C008	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C009	1-101-006-00	CERAMIC 0.047MF 50V	
C010	1-102-978-00	CERAMIC 220PF 5% 50V	
C011	1-108-429-51	MYLAR 0.047MF 200V	
C012	1-124-927-11	ELECT 4.7MF 20% 50V	
C014	1-101-004-00	CERAMIC 0.01MF 50V	
C021	1-102-959-00	CERAMIC 22PF 5% 50V	
C024	1-101-004-00	CERAMIC 0.01MF 50V	
C025	1-101-004-00	CERAMIC 0.01MF 50V	
C026	1-101-004-00	CERAMIC 0.01MF 50V	
C027	1-102-978-00	CERAMIC 220PF 5% 50V	
C028	1-102-820-00	CERAMIC 330PF 5% 50V	
C029	1-101-004-00	CERAMIC 0.01MF 50V	
C030	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C031	1-101-004-00	CERAMIC 0.01MF 50V	
C032	1-108-378-91	MYLAR 0.012MF 10% 100V	
C033	1-108-379-91	MYLAR 0.015MF 10% 100V	
C035	1-106-367-00	MYLAR 0.01MF 10% 100V	
C036	1-130-495-00	MYLAR 0.1MF 5% 50V	
C101	1-123-875-11	ELECT 10MF 20% 50V	
C102	1-124-908-11	ELECT 22MF 20% 25V	
C103	1-124-360-00	ELECT 1000MF 20% 16V	
C104	1-126-101-11	ELECT 100MF 20% 16V	
C106	1-119-160-00	ELECT 470MF 10V	
C116	1-106-367-00	MYLAR 0.01MF 10% 100V	
C121	1-124-477-11	ELECT 47MF 20% 16V	
C122	1-124-963-11	ELECT 33MF 20% 16V	
C135	1-106-182-00	MYLAR 0.0027MF 5% 100V	

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KV-27TX20  
RM-754

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C137	1-124-499-11	ELECT	1MF 20% 50V	C530	1-124-277-11	ELECT	4.7MF 20% 35V
C139	1-124-477-11	ELECT	47MF 20% 16V	C531	1-124-908-11	ELECT	22MF 20% 50V
C201	1-126-101-11	ELECT	100MF 20% 16V	C532	1-124-284-00	ELECT	10MF 20% 16V
C202	1-124-631-11	ELECT	47MF 20% 16V	C533	1-124-122-11	ELECT	100MF 20% 50V
C203	1-124-631-11	ELECT	47MF 20% 16V	C535	1-102-030-00	CERAMIC	330PF 10% 500V
C204	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C536	1-124-910-11	ELECT	47MF 20% 50V
C206	1-124-499-11	ELECT	1MF 20% 50V	C537	1-106-359-00	MYLAR	0.0047MF 10% 100V
C211	1-124-477-11	ELECT	47MF 20% 16V	C538	1-106-220-00	MYLAR	0.1MF 10% 100V
C214	1-123-875-11	ELECT	10MF 20% 50V	C539	1-123-382-00	ELECT	3.3MF 20% 50V
C215	1-123-875-11	ELECT	10MF 20% 50V	C540	1-123-875-11	ELECT	10MF 20% 50V
C250	1-124-910-11	ELECT	47MF 20% 50V	C541	1-124-910-11	ELECT	47MF 20% 50V
C251	1-124-667-11	ELECT	10MF 20% 100V	C542	1-124-609-11	ELECT	470MF 10% 50V
C252	1-124-925-11	ELECT	2.2MF 20% 100V	C543	1-123-875-11	ELECT	10MF 20% 50V
C253	1-123-930-00	ELECT	2.2MF 20% 160V	C544	1-124-927-11	ELECT	4.7MF 20% 50V
C254	1-124-925-11	ELECT	2.2MF 20% 100V	C546	1-106-343-00	MYLAR	0.001MF 10% 100V
C255	1-124-910-11	ELECT	47MF 20% 50V	C547	1-106-347-00	MYLAR	0.0015MF 10% 100V
C271	1-101-003-00	CERAMIC	0.0047MF 50V	C548	1-102-212-00	CERAMIC	820PF 10% 500V
C272	1-101-003-00	CERAMIC	0.0047MF 50V	C549	1-126-105-11	ELECT	1000MF 20% 35V
C291	1-124-910-11	ELECT	47MF 20% 50V	C550	1-124-902-00	ELECT	0.47MF 20% 50V
C292	1-124-667-11	ELECT	10MF 20% 100V	C551	1-102-114-00	CERAMIC	470PF 10% 50V
C293	1-124-925-11	ELECT	2.2MF 20% 100V	C552	1-162-115-00	CERAMIC	330PF 10% 2KV
C294	1-123-930-00	ELECT	2.2MF 20% 160V	C553	1-102-244-00	CERAMIC	220PF 10% 500V
C295	1-124-925-11	ELECT	2.2MF 20% 100V	C554	1-162-116-00	CERAMIC	680PF 10% 2KV
C296	1-124-910-11	ELECT	47MF 20% 50V	C555	1-108-379-91	MYLAR	0.015MF 10% 100V
C301	1-124-902-00	ELECT	0.47MF 20% 50V	C557	1-123-024-00	ELECT	33MF 160V
C302	1-102-961-00	CERAMIC	27PF 5% 50V	C558	1-123-947-00	ELECT	10MF 20% 250V
C303	1-126-101-11	ELECT	100MF 20% 16V	C559	1-108-435-51	MYLAR	0.15MF 200V
C305	1-124-902-00	ELECT	0.47MF 20% 50V	C560	1-136-113-00	FILM	2MF 5% 200V
C309	1-124-499-11	ELECT	1MF 20% 50V	C561	1-123-943-00	ELECT	1MF 20% 250V
C312	1-102-951-00	CERAMIC	15PF 5% 50V	C562	1-102-228-00	CERAMIC	470PF 10% 500V
C315	1-124-284-00	ELECT	10MF 20% 16V	C563 $\Delta$	1-136-418-11	FILM	0.021MF 3% 1.4KV
C316	1-124-766-00	ELECT	0.1MF 20% 50V	C564	1-136-124-00	FILM	0.56MF 5% 400V
C317	1-124-963-11	ELECT	33MF 20% 16V	C565 $\Delta$	1-136-316-51	FILM	0.056MF 5% 630V
C318	1-102-074-00	CERAMIC	0.001MF 10% 50V	C566	1-124-192-00	ELECT	4.7MF 20% 50V
C321	1-102-129-00	CERAMIC	0.01MF 10% 50V	C567	1-162-318-11	CERAMIC	0.001MF 10% 500V
C322	1-124-902-00	ELECT	0.47MF 20% 50V	C568	1-106-383-00	MYLAR	0.047MF 10% 100V
C330	1-124-120-11	ELECT	220MF 20% 16V	C569	1-108-429-51	MYLAR	0.047MF 200V
C331	1-126-101-11	ELECT	100MF 20% 16V	C570	1-162-114-00	CERAMIC	0.0047MF 2KV
C355	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C571	1-108-429-51	MYLAR	0.047MF 200V
C356	1-124-908-11	ELECT	22MF 20% 25V	C572	1-123-875-11	ELECT	10MF 20% 50V
C361	1-124-902-00	ELECT	0.47MF 20% 50V	C574	1-106-220-00	MYLAR	0.1MF 10% 100V
C364	1-106-367-00	MYLAR	0.01MF 10% 100V	C575	1-162-116-00	CERAMIC	680PF 10% 2KV
C365	1-102-978-00	CERAMIC	220PF 5% 50V	C594	1-124-557-11	ELECT	1000MF 20% 25V
C366	1-106-367-00	MYLAR	0.01MF 10% 100V	C595	1-102-212-00	CERAMIC	820PF 10% 500V
C367	1-124-480-11	ELECT	470MF 20% 25V	C596	1-129-710-00	FILM	0.0047MF 10% 630V
C501	1-126-101-11	ELECT	100MF 20% 16V	C597	1-124-484-11	ELECT	220MF 20% 35V
C502	1-108-375-91	MYLAR	0.0068MF 10% 100V	C598	1-124-963-11	ELECT	33MF 20% 16V
C503	1-124-499-11	ELECT	1MF 20% 50V	C599	1-124-120-11	ELECT	220MF 20% 25V
C504	1-108-386-51	MYLAR	0.056MF 10% 100V	C601 $\Delta$	1-108-745-52	MYLAR	0.22MF 20% 125V
C505	1-108-375-91	MYLAR	0.0068MF 10% 100V	C602	1-125-215-00	ELECT(BLOCK)	560MF 200V
C507	1-102-114-00	CERAMIC	470PF 10% 50V	C603	1-161-830-00	CERAMIC	0.0047MF 500V
C508	1-101-006-00	CERAMIC	0.047MF 50V	C604	1-161-830-00	CERAMIC	0.0047MF 500V
C509	1-101-006-00	CERAMIC	0.047MF 50V	C605	1-123-948-00	ELECT	22MF 20% 250V
C510	1-106-367-00	MYLAR	0.01MF 10% 100V	C606	1-124-444-00	ELECT	220MF 20% 10V
C511	1-108-383-00	MYLAR	0.033MF 10% 100V	C607	1-161-830-00	CERAMIC	0.0047MF 500V
C512	1-124-925-11	ELECT	2.2MF 20% 50V	C615	1-123-933-00	ELECT	10MF 20% 160V
C513	1-124-499-11	ELECT	1MF 20% 50V	C616	1-123-933-00	ELECT	10MF 20% 160V
C514	1-123-875-11	ELECT	10MF 20% 50V	C617	1-123-933-00	ELECT	10MF 20% 160V
C515	1-124-464-11	ELECT	0.22MF 20% 50V	C1501	1-124-477-11	ELECT	47MF 20% 16V
C516	1-124-477-11	ELECT	47MF 20% 16V				
C517	1-124-499-11	ELECT	1MF 20% 50V				
C518	1-102-125-00	CERAMIC	0.0047MF 10% 50V				
C520	1-124-277-11	ELECT	4.7MF 20% 35V				
C521	1-102-978-00	CERAMIC	220PF 5% 50V				
C522	1-102-824-00	CERAMIC	470PF 5% 50V				

# FILTER

CM301 1-464-720-11 FILTER BLOCK, COM (CFB-1)

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>COMPOSITION CIRCUIT BLOCK</u>							
CP103	1-233-118-11	COMPOSITION CIRCUIT BLOCK		IC203	8-759-006-10	IC CX20061	
CP104	1-233-118-11	COMPOSITION CIRCUIT BLOCK		IC301	8-752-031-72	IC CXA1013AS	
CP105	1-233-153-11	COMPOSITION CIRCUIT BLOCK		IC303	8-759-710-04	IC NJM78M93FD	
CP106	1-233-117-11	COMPOSITION CIRCUIT BLOCK		IC501	8-759-402-35	IC AN5521	
CP108	1-233-118-11	COMPOSITION CIRCUIT BLOCK		IC502	8-759-145-58	IC UPC4558C	
CP301	1-236-078-11	NETWORK, RES, THICK FILM		IC601 $\Delta$	8-749-930-35	IC STR3035	
					4-369-267-01	SPACER, MICA; IC601	
				MM201	8-749-900-80	IC BX-1458	
<u>DIODE</u>				<u>IF BLOCK</u>			
D001	8-719-101-39	DIODE RD3.6E-L2		IF201	1-464-755-11	IF BLOCK (IFE-450)	
D003	8-719-911-19	DIODE 1SS119		<u>COIL</u>			
D101	8-719-110-78	DIODE RD33ES-B2		L103	1-410-482-31	INDUCTOR 100UH	
D112	8-719-911-19	DIODE 1SS119		L104	1-410-465-41	INDUCTOR 3.9UH	
D113	8-719-911-19	DIODE 1SS119		L106	1-410-465-41	INDUCTOR 3.9UH	
D114	8-719-911-19	DIODE 1SS119		L203	1-410-469-41	INDUCTOR 8.2UH	
D115	8-719-109-89	DIODE RD5.6ES-B2		L301	1-410-421-11	INDUCTOR 15UH	
D117	8-719-109-89	DIODE RD5.6ES-B2		L501	1-408-938-00	INDUCTOR 22UH	
D124	8-719-911-19	DIODE 1SS119		L502	1-408-225-00	INDUCTOR 3.3UH	
D126	8-719-911-19	DIODE 1SS119		L504	1-459-313-00	COIL WITH CORE (HWC)	
D129	8-719-911-19	DIODE 1SS119		L505	1-459-104-00	COIL, DUST CORE	
D191	8-719-911-19	DIODE 1SS119		L506	1-407-365-00	COIL, CHOKER	
D301	8-719-911-19	DIODE 1SS119		L507	1-408-349-00	COIL, CHOKER	
D350	8-719-911-19	DIODE 1SS119		L508	1-408-239-00	INDUCTOR 4.7MMH	
D351	8-719-911-19	DIODE 1SS119		L510 $\Delta$	1-459-224-13	HLC	
D505	8-719-911-19	DIODE 1SS119		L511	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKER	
D506	8-719-911-19	DIODE 1SS119		L516	1-408-225-00	INDUCTOR 3.3UH	
D508	8-719-911-55	DIODE U05G		L601 $\Delta$	1-408-225-21	INDUCTOR 3.3UH	
D509	8-719-911-19	DIODE 1SS119		L602 $\Delta$	1-408-225-21	INDUCTOR 3.3UH	
D510	8-719-911-19	DIODE 1SS119		L609	1-410-459-11	INDUCTOR 1.2UH	
D511	8-719-918-77	DIODE V19G		<u>NEON LAMP</u>			
D512	8-719-945-80	DIODE ERC06-15		NL501	1-519-237-11	LAMP, NEON	
D513	8-719-945-80	DIODE ERC06-15		<u>PROTECTOR MODULE</u>			
D514	8-719-900-26	DIODE ERD29-08J		PM501 $\Delta$	1-235-963-11	PROTECTOR MODULE (PM-9)	
D515	8-719-911-55	DIODE U05G		<u>TRANSISTOR</u>			
D516	8-719-911-55	DIODE U05G		Q001	8-729-178-54	TRANSISTOR 2SC2785	
D517	8-719-924-06	DIODE ERC24-06S		Q002	8-729-178-54	TRANSISTOR 2SC2785	
D518	8-719-300-65	DIODE ES1F		Q003	8-729-117-54	TRANSISTOR 2SA1175	
D519	8-719-300-65	DIODE ES1F		Q004	8-729-178-54	TRANSISTOR 2SC2785	
D597	8-719-902-85	DIODE RG3G-5007L		Q005	8-729-117-54	TRANSISTOR 2SA1175	
D598	8-719-549-41	DIODE ERB43-08		Q006	8-729-178-54	TRANSISTOR 2SC2785	
D599	8-719-110-17	DIODE RD10ES-B2		Q101	8-729-178-54	TRANSISTOR 2SC2785	
D601 $\Delta$	8-719-305-07	DIODE RBV-406H		Q110	8-729-178-54	TRANSISTOR 2SC2785	
D602	8-719-911-55	DIODE U05G		Q112	8-729-378-91	TRANSISTOR 2SD789	
D603	8-719-304-63	DIODE RM11C		Q113	8-729-117-54	TRANSISTOR 2SA1175	
D604	8-719-304-63	DIODE RM11C		Q114	8-729-178-54	TRANSISTOR 2SC2785	
D605	8-719-109-84	DIODE RD5.1ES-B1		Q116	8-729-178-54	TRANSISTOR 2SC2785	
D606	8-719-911-55	DIODE U05G		Q203 $\Delta$	8-729-378-84	TRANSISTOR 2SD788	
D1501	8-719-549-41	DIODE ERB43-08		Q301	8-729-178-54	TRANSISTOR 2SC2785	
D1502	8-719-110-04	DIODE RD7.5ES-B3		Q302	8-729-178-54	TRANSISTOR 2SC2785	
D1503	8-719-902-85	DIODE RG3G-5007L		Q303	8-729-178-54	TRANSISTOR 2SC2785	
<u>FUSE</u>				Q304	8-729-178-54	TRANSISTOR 2SC2785	
F601 $\Delta$	1-532-509-11	FUSE, GLASS TUBE 6.3A/125V		Q305	8-729-117-54	TRANSISTOR 2SA1175	
	1-533-190-11	CLIP, FUSE; F601		Q311	8-729-178-54	TRANSISTOR 2SC2785	
F602 $\Delta$	1-532-742-11	FUSE, GLASS TUBE 1.6A/125V		Q354	8-729-117-54	TRANSISTOR 2SA1175	
	*1-533-189-11	HOLDER, FUSE; F602					
<u>IC</u>							
IC101	8-759-971-66	IC MB88E734-111					
IC201	8-749-900-15	IC SI-4102					
IC202	8-749-900-15	IC SI-4102					

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q356	8-729-178-54	TRANSISTOR 2SC2785		R064	1-249-417-11	CARBON 1K 5% 1/4W	
Q357	8-729-178-54	TRANSISTOR 2SC2785		R065	1-249-416-11	CARBON 820 5% 1/4W	
Q371	8-729-178-54	TRANSISTOR 2SC2785		R066	1-249-429-11	CARBON 10K 5% 1/4W	
Q501	8-729-107-26	TRANSISTOR 2SD1585		R067	1-249-417-11	CARBON 1K 5% 1/4W	
Q502	8-729-117-54	TRANSISTOR 2SA1175		R068	1-249-411-11	CARBON 330 5% 1/4W	
Q503	8-729-117-54	TRANSISTOR 2SA1175		R069	1-249-411-11	CARBON 330 5% 1/4W	
Q504	8-729-178-54	TRANSISTOR 2SC2785		R070	1-249-411-11	CARBON 330 5% 1/4W	
Q505	8-729-117-54	TRANSISTOR 2SA1175		R071	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q506	8-729-178-54	TRANSISTOR 2SC2785		R072	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q550	8-729-168-82	TRANSISTOR 2SC2688		R073	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q551	8-729-304-50	TRANSISTOR 2SD1941-06		R074	1-249-425-11	CARBON 4.7K 5% 1/4W	
	*4-378-214-01	HOLDER, TR; Q551		R075	1-247-883-00	CARBON 150K 5% 1/4W	
Q599	8-729-378-91	TRANSISTOR 2SD789		R076	1-249-433-11	CARBON 22K 5% 1/4W	
Q601	8-729-255-12	TRANSISTOR 2SC2551		R078	1-249-411-11	CARBON 330 5% 1/4W	
				R080	1-249-433-11	CARBON 22K 5% 1/4W	
RESISTOR				R085	1-247-717-11	CARBON 2.2K 5% 1/4W	
R002	1-249-423-11	CARBON 3.3K 5% 1/4W		R086	1-247-725-11	CARBON 10K 5% 1/4W	
R003	1-249-427-11	CARBON 6.8K 5% 1/4W		R087	1-249-421-11	CARBON 2.2K 5% 1/4W	
R007	1-249-429-11	CARBON 10K 5% 1/4W		R088	1-247-702-11	CARBON 150 5% 1/4W	
R008	1-249-429-11	CARBON 10K 5% 1/4W		R089	1-249-433-11	CARBON 22K 5% 1/4W	
R009	1-249-431-11	CARBON 15K 5% 1/4W		R090	1-246-529-00	CARBON 220K 5% 1/4W	
R010	1-249-421-11	CARBON 2.2K 5% 1/4W		R091	1-249-433-11	CARBON 22K 5% 1/4W	
R011	1-249-421-11	CARBON 2.2K 5% 1/4W		R092	1-249-417-11	CARBON 1K 5% 1/4W	
R012	1-249-421-11	CARBON 2.2K 5% 1/4W		R101	1-249-426-11	CARBON 5.6K 5% 1/4W	
R013	1-249-421-11	CARBON 2.2K 5% 1/4W		R102	1-249-417-11	CARBON 1K 5% 1/4W	
R014	1-249-412-11	CARBON 390 5% 1/4W		R103	1-215-923-00	METAL OXIDE 10K 5% 3W F	
R015	1-247-725-11	CARBON 10K 5% 1/4W		R119	1-249-429-11	CARBON 10K 5% 1/4W	
R016	1-249-429-11	CARBON 10K 5% 1/4W		R146	1-249-417-11	CARBON 1K 5% 1/4W	
R017	1-249-429-11	CARBON 10K 5% 1/4W		R147	1-249-423-11	CARBON 3.3K 5% 1/4W	
R018	1-249-429-11	CARBON 10K 5% 1/4W		R149	1-247-726-11	CARBON 33K 5% 1/4W	
R019	1-249-429-11	CARBON 10K 5% 1/4W		R150	1-249-466-11	CARBON 56K 5% 1/4W	
R020	1-249-414-11	CARBON 560 5% 1/4W		R151	1-249-429-11	CARBON 10K 5% 1/4W	
R021	1-249-414-11	CARBON 560 5% 1/4W		R152	1-249-433-11	CARBON 22K 5% 1/4W	
R022	1-249-427-11	CARBON 6.8K 5% 1/4W		R153	1-249-429-11	CARBON 10K 5% 1/4W	
R023	1-249-413-11	CARBON 470 5% 1/4W		R158	1-247-895-00	CARBON 470K 5% 1/4W	
R024	1-249-413-11	CARBON 470 5% 1/4W		R159	1-249-409-11	CARBON 220 5% 1/4W	
R025	1-247-725-11	CARBON 10K 5% 1/4W		R160	1-249-439-11	CARBON 68K 5% 1/4W	
R026	1-249-413-11	CARBON 470 5% 1/4W		R161	1-249-413-11	CARBON 470 5% 1/4W	
R027	1-247-722-11	CARBON 5.6K 5% 1/4W		R170	1-249-415-11	CARBON 680 5% 1/4W	
R028	1-249-423-11	CARBON 3.3K 5% 1/4W		R201	1-249-405-11	CARBON 100 5% 1/4W	
R029	1-249-421-11	CARBON 2.2K 5% 1/4W		R202	1-247-700-11	CARBON 100 5% 1/4W	
R030	1-249-421-11	CARBON 2.2K 5% 1/4W		R207	1-249-439-11	CARBON 68K 5% 1/4W	
R031	1-249-421-11	CARBON 2.2K 5% 1/4W		R208	1-249-425-11	CARBON 4.7K 5% 1/4W	
R032	1-249-433-11	CARBON 22K 5% 1/4W		R209	1-249-417-11	CARBON 1K 5% 1/4W	
R033	1-249-463-11	CARBON 27K 5% 1/4W		R210	1-247-700-11	CARBON 100 5% 1/4W	
R034	1-247-725-11	CARBON 10K 5% 1/4W		R211	1-249-433-11	CARBON 22K 5% 1/4W	
R035	1-249-469-11	CARBON 100K 5% 1/4W		R212	1-249-419-11	CARBON 1.5K 5% 1/4W	
R036	1-249-433-11	CARBON 22K 5% 1/4W		R213	1-249-411-11	CARBON 330 5% 1/4W	
R037	1-249-417-11	CARBON 1K 5% 1/4W		R214	1-249-411-11	CARBON 330 5% 1/4W	
R038	1-247-704-11	CARBON 220 5% 1/4W		R217	1-247-713-11	CARBON 1K 5% 1/4W	
R039	1-249-409-11	CARBON 220 5% 1/4W		R221	1-249-413-11	CARBON 470 5% 1/4W	
R043	1-247-713-11	CARBON 1K 5% 1/4W		R229	1-249-411-11	CARBON 330 5% 1/4W	
R044	1-247-712-11	CARBON 820 5% 1/4W		R230	1-247-706-11	CARBON 330 5% 1/4W	
R045	1-247-710-11	CARBON 560 5% 1/4W		R231	1-247-700-11	CARBON 100 5% 1/4W	
R046	1-249-441-11	CARBON 100K 5% 1/4W		R232	1-249-411-11	CARBON 330 5% 1/4W	
R047	1-249-413-11	CARBON 470 5% 1/4W		R233	1-249-411-11	CARBON 330 5% 1/4W	
R048	1-249-411-11	CARBON 330 5% 1/4W		R234	1-249-411-11	CARBON 330 5% 1/4W	
R049	1-249-421-11	CARBON 2.2K 5% 1/4W		R240	1-247-721-11	CARBON 4.7K 5% 1/4W	
R050	1-249-421-11	CARBON 2.2K 5% 1/4W		R250	1-249-411-11	CARBON 330 5% 1/4W F	
R051	1-249-433-11	CARBON 22K 5% 1/4W		R251	$\Delta$ 1-249-401-91	CARBON 301K 47K 5% 1/4W F	
R052	1-249-425-11	CARBON 4.7K 5% 1/4W		R252	1-249-430-11	CARBON 12K 5% 1/4W	
R053	1-249-414-11	CARBON 560 5% 1/4W		R253	1-249-434-11	CARBON 27K 5% 1/4W	
R055	1-249-438-11	CARBON 56K 5% 1/4W		R254	1-249-403-11	CARBON 68 5% 1/4W	
R057	1-247-725-11	CARBON 10K 5% 1/4W		R271	1-249-433-11	CARBON 22K 5% 1/4W	
				R272	1-249-433-11	CARBON 22K 5% 1/4W	



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- The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- \* : Selected to yield optimum performance.

Les composants identifiés par une trame et une marque ☒ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark ☒ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R290	1-249-410-11	CARBON	270 5% 1/4W F	R507	1-249-426-11	CARBON	5.6K 5% 1/4W
R291	1-249-430-11	CARBON	12K 5% 1/4W	R508	1-249-437-11	CARBON	47K 5% 1/4W
R292	<input checked="" type="checkbox"/> 1-249-401-91	CARBON	47 5% 1/4W F	R509	1-249-434-11	CARBON	27K 5% 1/4W
R293	1-249-434-11	CARBON	27K 5% 1/4W	R510	1-249-422-11	CARBON	2.7K 5% 1/4W
R301	1-215-472-00	METAL	130K 1% 1/6W	R512	1-249-411-11	CARBON	330 5% 1/4W
R302	1-249-437-11	CARBON	47K 5% 1/4W	R513	1-215-472-00	METAL	130K 1% 1/6W
R303	1-249-433-11	CARBON	22K 5% 1/4W	R514	1-215-459-00	METAL	39K 1% 1/6W
R306	1-249-430-11	CARBON	12K 5% 1/4W	R515	1-215-441-00	METAL	6.8K 1% 1/6W
R307	1-249-423-11	CARBON	3.3K 5% 1/4W	R516	1-249-428-11	CARBON	8.2K 5% 1/4W
R308	1-249-411-11	CARBON	330 5% 1/4W	R517	1-247-713-11	CARBON	1K 5% 1/4W
R309	1-249-411-11	CARBON	330 5% 1/4W	R519	1-249-424-11	CARBON	3.9K 5% 1/4W
R310	1-249-411-11	CARBON	330 5% 1/4W	R521	1-247-887-00	CARBON	220K 5% 1/4W
R315	1-249-417-11	CARBON	1K 5% 1/4W	R522	1-249-421-11	CARBON	2.2K 5% 1/4W
R316	1-247-713-11	CARBON	1K 5% 1/4W	R523	1-249-417-11	CARBON	1K 5% 1/4W
R318	1-249-417-11	CARBON	1K 5% 1/4W	R524	1-247-713-11	CARBON	1K 5% 1/4W
R319	1-249-417-11	CARBON	1K 5% 1/4W	R525	1-249-419-11	CARBON	1.5K 5% 1/4W
R320	1-249-417-11	CARBON	1K 5% 1/4W	R526	1-249-431-11	CARBON	15K 5% 1/4W
R323	1-249-427-11	CARBON	6.8K 5% 1/4W	R527	1-249-417-11	CARBON	1K 5% 1/4W
R325	1-249-435-11	CARBON	33K 5% 1/4W	R528	1-249-429-11	CARBON	10K 5% 1/4W
R328	1-249-414-11	CARBON	560 5% 1/4W	R529	1-249-423-11	CARBON	3.3K 5% 1/4W
R329	1-249-441-11	CARBON	100K 5% 1/4W	R530	1-249-433-11	CARBON	22K 5% 1/4W
R330	1-249-426-11	CARBON	5.6K 5% 1/4W	R531	1-246-535-00	CARBON	390K 5% 1/4W
R332	1-247-881-00	CARBON	120K 5% 1/4W	R533	1-249-417-11	CARBON	1K 5% 1/4W
R333	1-249-429-11	CARBON	10K 5% 1/4W	R534	1-249-410-11	CARBON	270 5% 1/4W
R334	1-249-413-11	CARBON	470 5% 1/4W	R535	1-249-419-11	CARBON	1.5K 5% 1/4W F
R335	1-247-721-11	CARBON	4.7K 5% 1/4W	R536	1-249-463-11	CARBON	27K 5% 1/4W
R339	1-247-725-11	CARBON	10K 5% 1/4W	R537	1-247-726-11	CARBON	33K 5% 1/4W
R340	1-249-427-11	CARBON	6.8K 5% 1/4W	R539	1-215-373-31	METAL	10 1% 1/6W
R344	1-215-894-11	METAL OXIDE	2.2K 5% 2W F	R540	1-249-405-11	CARBON	100 5% 1/4W
R348	1-247-717-11	CARBON	2.2K 5% 1/4W	R541	1-249-429-11	CARBON	10K 5% 1/4W
R349	1-249-417-11	CARBON	1K 5% 1/4W	R542	1-249-426-11	CARBON	5.6K 5% 1/4W
R350	1-249-437-11	CARBON	47K 5% 1/4W	R543	1-249-434-11	CARBON	27K 5% 1/4W
R351	1-249-441-11	CARBON	100K 5% 1/4W	R544	1-249-429-11	CARBON	10K 5% 1/4W
R352	1-247-901-11	CARBON	820K 5% 1/4W	R545	1-247-754-11	CARBON	1.5K 5% 1/2W
R353	1-249-429-11	CARBON	10K 5% 1/4W	R546	1-249-415-11	CARBON	680 5% 1/4W F
R361	1-249-429-11	CARBON	10K 5% 1/4W	R547	1-249-429-11	CARBON	10K 5% 1/4W
R362	1-216-470-00	METAL OXIDE	18 5% 3W F	R548	1-249-437-11	CARBON	47K 5% 1/4W
R364	1-249-437-11	CARBON	47K 5% 1/4W	R549	<input checked="" type="checkbox"/> 1-249-415-91	CARBON	680 5% 1/4W F
R366	1-247-713-11	CARBON	1K 5% 1/4W	R550	1-249-440-11	CARBON	82K 5% 1/4W
R368	1-249-429-11	CARBON	10K 5% 1/4W	*R551	1-249-437-11	CARBON	47K 5% 1/4W
R369	1-249-417-11	CARBON	1K 5% 1/4W	R552	1-247-713-11	CARBON	1K 5% 1/4W F
R371	1-249-429-11	CARBON	10K 5% 1/4W	R553	1-249-413-11	CARBON	470 5% 1/4W
R372	1-249-427-11	CARBON	6.8K 5% 1/4W	R554	1-249-429-11	CARBON	10K 5% 1/4W
R373	1-249-429-11	CARBON	10K 5% 1/4W	*R555	1-249-413-11	CARBON	470 5% 1/4W
R374	1-249-425-11	CARBON	4.7K 5% 1/4W	R556	1-216-371-00	METAL OXIDE	1.5 5% 2W F
R375	1-249-434-11	CARBON	27K 5% 1/4W	R557	1-259-871-15	CARBON	6.8M 5% 1/4W
R376	1-247-704-11	CARBON	220 5% 1/4W	R558	1-249-407-11	CARBON	150 5% 1/4W
R378	1-215-894-11	METAL OXIDE	2.2K 5% 2W F	R559	1-249-417-11	CARBON	1K 5% 1/4W
R379	1-215-894-11	METAL OXIDE	2.2K 5% 2W F	R560	1-247-719-11	CARBON	3.3K 5% 1/4W
R380	1-249-419-11	CARBON	1.5K 5% 1/4W F	R561	1-247-717-11	CARBON	2.2K 5% 1/4W
<input checked="" type="checkbox"/> R381	<input checked="" type="checkbox"/> 1-202-830-00	METAL	10K 10% 1/2W	R562	1-215-880-00	METAL OXIDE	10 5% 2W F
R382	1-202-830-00	SOL ID	10K 10% 1/2W	R563	1-249-436-11	CARBON	39K 5% 1/4W
R385	1-249-436-11	CARBON	39K 5% 1/4W	R564	1-249-433-11	CARBON	22K 5% 1/4W
R386	1-249-439-11	CARBON	68K 5% 1/4W	R565	1-249-441-11	CARBON	100K 5% 1/4W
R387	1-249-462-11	CARBON	22K 5% 1/4W	R566	1-247-895-00	CARBON	470K 5% 1/4W
R389	1-249-414-11	CARBON	560 5% 1/4W	R567	<input checked="" type="checkbox"/> 1-216-373-91	METAL OXIDE	2.2 5% 2W F
R390	1-247-721-11	CARBON	4.7K 5% 1/4W	R568	1-249-448-11	CARBON	1.2 5% 1/4W F
R391	1-249-441-11	CARBON	100K 5% 1/4W	R569	1-249-423-11	CARBON	3.3K 5% 1/4W
R392	1-249-429-11	CARBON	10K 5% 1/4W	R570	<input checked="" type="checkbox"/> 1-215-918-51	METAL OXIDE	1.5K 5% 3W F
R501	1-216-458-11	METAL OXIDE	1.8K 5% 2W F	R571	1-247-700-11	CARBON	100 5% 1/4W
R502	1-216-458-11	METAL OXIDE	1.8K 5% 2W F	R572	1-249-423-11	CARBON	3.3K 5% 1/4W
R503	1-249-405-11	CARBON	100 5% 1/4W	R573	1-247-722-11	CARBON	5.6K 5% 1/4W F
R504	1-249-414-11	CARBON	560 5% 1/4W	R574	1-216-345-11	METAL OXIDE	0.47 5% 1W F
R505	1-215-472-00	METAL	130K 1% 1/6W	R575	1-249-434-11	CARBON	27K 5% 1/4W
R506	1-247-702-11	CARBON	150 5% 1/4W	R576	1-249-389-11	CARBON	4.7 5% 1/4W F

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Ne les remplacer que par une pièce portant le numéro spécifié.

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M2

M1

Ref.No.	Part No.	Description	Remark
R577	1-215-860-11	METAL OXIDE 33 5% 1W	F
R578	$\Delta$ 1-215-880-91	METAL OXIDE 10 5% 1/4W	F
R579	$\Delta$ 1-249-415-91	CARBON 680 5% 1/4W	F
R580	$\Delta$ 1-215-861-91	METAL OXIDE 47 5% 1W	F
R581	1-247-708-11	CARBON 470 5% 1/4W	F
R582	1-216-450-00	METAL OXIDE 82 5% 2W	F
R583	1-216-450-00	METAL OXIDE 82 5% 2W	F
R584	1-216-458-11	METAL OXIDE 1.8K 5% 2W	F
R585	1-216-458-11	METAL OXIDE 1.8K 5% 2W	F
R586	1-216-429-00	METAL OXIDE 270 5% 1W	F
R587	$\Delta$ 1-216-434-91	METAL OXIDE 1.8K 5% 1W	F
R588	1-247-696-11	CARBON 47 5% 1/4W	F
R589	1-249-441-11	CARBON 100K 5% 1/4W	F
R591	$\Delta$ 1-216-365-91	METAL OXIDE 0.47 5% 2W	F
R592	$\Delta$ 1-249-448-51	CARBON 1.2 5% 1/4W	F
R593	1-216-374-00	METAL OXIDE 2.7 5% 2W	F
R598	$\Delta$ 1-249-389-91	CARBON 47 5% 1/4W	F
R599	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R601	1-202-726-00	SOLID 3.9M 10% 1/2W	F
R602	$\Delta$ 1-205-741-11	WIREWOUND 1.8 5% 10W	F
R603	1-247-717-11	CARBON 2.2K 5% 1/4W	F
R604	1-249-429-11	CARBON 10K 5% 1/4W	F
R605	$\Delta$ 1-205-702-11	WIREWOUND 220 5% 20W	F
R606	1-246-531-00	CARBON 270K 5% 1/4W	F
R610	$\Delta$ 1-217-224-11	WIREWOUND 100 10% 2W	F
R611	1-215-872-11	METAL OXIDE 3.3K 5% 1W	F
R613	1-249-437-11	CARBON 47K 5% 1/4W	F
R614	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R615	$\Delta$ 1-216-463-91	METAL OXIDE 12K 5% 2W	F
R616	$\Delta$ 1-247-719-51	CARBON 3.3K 5% 1/4W	F
R617	$\Delta$ 1-249-401-91	CARBON 47 5% 1/4W	F
R618	1-247-895-00	CARBON 470K 5% 1/4W	F
R619	1-216-482-11	METAL OXIDE 1.8K 5% 3W	F
R620	1-216-482-11	METAL OXIDE 1.8K 5% 3W	F
R621	1-216-482-11	METAL OXIDE 1.8K 5% 3W	F
R650	$\Delta$ 1-205-702-11	WIREWOUND 220 5% 20W	F
R1501	1-215-923-00	METAL OXIDE 10K 5% 3W	F
R1502	1-249-437-11	CARBON 47K 5% 1/4W	F
R1504	1-249-409-11	CARBON 220 5% 1/4W	F

#### VARIABLE RESISTOR

RV201	1-238-015-11	RES, ADJ, CARBON 4.7K
RV291	1-238-010-11	RES, ADJ, CARBON 330
RV307	1-238-011-11	RES, ADJ, CARBON 470
RV501	1-228-728-00	RES, ADJ, CERAMIC CARBON 100K
RV502	1-238-020-11	RES, ADJ, CARBON 100K
RV504	1-238-017-11	RES, ADJ, CARBON 22K
RV505	1-238-017-11	RES, ADJ, CARBON 22K
RV506	1-238-019-21	RES, ADJ, CARBON 47K
RV507	1-238-010-11	RES, ADJ, CARBON 330
RV508	1-238-012-11	RES, ADJ, CARBON 1K

#### RELAY POWER

RY601A 1-515-573-11 RELAY, POWER

#### SWITCH

S501 1-554-186-00 SWITCH, LEVER

#### SPARK GAP

SG501 1-519-422-11 GAP, SPARK

Ref.No.	Part No.	Description	Remark
<u>TRANSFORMER</u>			
T101	1-404-538-11	COIL	
T201	$\Delta$ 1-427-462-11	TRANSFORMER, SOUND OUTPUT	
T299	$\Delta$ 1-427-462-11	TRANSFORMER, SOUND OUTPUT	
T501	1-437-079-00	TRANSFORMER, HORIZONTAL DRIVE	
T502	$\Delta$ 1-421-794-11	TRANSFORMER, FERRITE (PMT)	
T599	1-421-857-11	TRANSFORMER, FERRITE	
T601	$\Delta$ 1-421-357-31	TRANSFORMER, LINE FILTER	
<u>THERMISTOR</u>			
THP601A	1-808-081-11	THERMISTOR, POSITIVE	
<u>TUNER</u>			
TU101A	1-463-771-11	TUNER, ET (BTP-201A)	
<u>CRYSTAL</u>			
X001	1-567-192-11	OSCILLATOR, CERAMIC	
X301	1-567-505-11	OSCILLATOR, CRYSTAL	
*****			
*1-624-991-11	M2 BOARD	*****	
*1-566-045-11	PIN, CONNECTOR 6P		
*1-566-062-11	PIN, CONNECTOR 10P		
<u>DIODE</u>			
D804	8-719-911-19	DIODE 1SS119	
<u>RESISTOR</u>			
R801	1-249-429-11	CARBON 10K 5% 1/4W	
R802	1-249-430-11	CARBON 12K 5% 1/4W	
R803	1-249-428-11	CARBON 8.2K 5% 1/4W	
<u>VARIABLE RESISTOR</u>			
RV801	1-238-024-11	RES, VAR, CARBON 20KX4	
RV802	1-238-024-11	RES, VAR, CARBON 20KX4	
RV803	1-238-024-11	RES, VAR, CARBON 20KX4	
RV804	1-238-024-11	RES, VAR, CARBON 20KX4	
<u>SWITCH</u>			
S809	1-554-303-21	SWITCH, KEY BOARD	
S810	1-554-303-21	SWITCH, KEY BOARD	
S811	1-554-303-21	SWITCH, KEY BOARD	
S812	1-571-400-11	SWITCH, ROTARY	
S813	1-571-400-11	SWITCH, ROTARY	
S814	1-571-400-11	SWITCH, ROTARY	
S815	1-571-400-11	SWITCH, ROTARY	
*****			
*1-624-992-11	M1 BOARD	*****	
*1-566-043-11	PIN, CONNECTOR 4P		
*1-566-050-11	PIN, CONNECTOR 11P		
*4-374-987-01	GUIDE, LIGHT		
*4-388-955-01	BRACKET (B), LIGHT GUIDE		

M1

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>DIODE</u>				<u>TRANSISTOR</u>			
D801	8-719-101-08	DIODE SR108D		Q704	8-729-326-11	TRANSISTOR 2SC2611	
	*4-368-519-00	HOLDER (3 GANG), LED; D801		Q705	8-729-178-54	TRANSISTOR 2SC2785	
D802	*4-368-519-00	HOLDER (3 GANG), LED		Q706	8-729-326-11	TRANSISTOR 2SC2611	
D803	8-719-101-08	DIODE SR108D		<u>RESISTOR</u>			
	*4-368-519-00	HOLDER (3 GANG), LED; D803		R701	1-202-838-00	SOL ID	100K 10% 1/2W
<u>IC</u>				R702	1-216-397-11	METAL OXIDE	4.7 5% 3W F
IC801	8-741-901-43	IC SBX1483-51		R703	1-202-842-11	SOL ID	220K 10% 1/2W
<u>SWITCH</u>				R704	1-202-846-00	SOL ID	470K 10% 1/2W
S801	1-554-303-21	SWITCH, KEY BOARD		R705	1-202-837-00	SOL ID	82K 10% 1/2W
S802	1-554-303-21	SWITCH, KEY BOARD		R706	1-202-549-00	SOL ID	100 10% 1/2W
S803	1-554-303-21	SWITCH, KEY BOARD		R707	1-202-842-11	SOL ID	220K 10% 1/2W
S804	1-554-303-21	SWITCH, KEY BOARD		R708	1-202-824-00	SOL ID	3.3K 10% 1/2W
S805	1-554-303-21	SWITCH, KEY BOARD		R709	1-202-824-00	SOL ID	3.3K 10% 1/2W
S807	1-554-303-21	SWITCH, KEY BOARD		R710	1-202-359-21	SOL ID	100 5% 1/4W
<del>S808</del>	<del>1-554-303-11</del>	<del>SWITCH, KEY BOARD</del>		R711	1-249-409-11	CARBON	220 5% 1/4W
S1801	1-554-303-21	SWITCH, KEY BOARD		R712	1-249-409-11	CARBON	220 5% 1/4W
*****				R713	1-202-824-00	SOL ID	3.3K 10% 1/2W
*A-1330-838-A	C BOARD, COMPLETE	*****		R714	1-249-421-11	CARBON	2.2K 5% 1/4W
1-526-798-51	SOCKET, PICTURE TUBE			R715	1-249-422-11	CARBON	2.7K 5% 1/4W
*4-379-160-01	COVER (REAR LTD), CV			R716	1-249-414-11	CARBON	560 5% 1/4W
*4-379-167-01	COVER (MAIN), CV			R718	1-249-405-11	CARBON	100 5% 1/4W
<u>CONNECTOR</u>				R719	1-249-418-11	CARBON	1.2K 5% 1/4W
C1	*1-506-371-00	2P PLUG (L)		R720	1-249-413-11	CARBON	470 5% 1/4W
C2	*1-508-768-00	6P PLUG		<del>R722</del>	<del>1-206-692-61</del>	<del>METAL OXIDE</del>	<del>15K 5% 1/2W F</del>
C3	*1-566-058-11	PIN, CONNECTOR 6P		R723	1-249-414-11	CARBON	560 5% 1/4W
<u>CAPACITOR</u>				R725	1-249-422-11	CARBON	2.7K 5% 1/4W
C701	1-129-714-00	FILM	0.01MF 10% 630V	R726	1-249-405-11	CARBON	100 5% 1/4W
C702	1-162-115-00	CERAMIC	330PF 10% 2KV	R727	1-249-418-11	CARBON	1.2K 5% 1/4W
C704	1-124-915-11	ELECT	10MF 20% 63V	R728	1-249-413-11	CARBON	470 5% 1/4W
C705	1-102-116-00	CERAMIC	680PF 10% 50V	R729	1-249-409-11	CARBON	220 5% 1/4W
C706	1-102-116-00	CERAMIC	680PF 10% 50V	<del>R730</del>	<del>1-206-692-61</del>	<del>METAL OXIDE</del>	<del>15K 5% 1/2W F</del>
C707	1-102-116-00	CERAMIC	680PF 10% 50V	R732	1-249-411-11	CARBON	330 5% 1/4W
C708	1-102-110-00	CERAMIC	220PF 10% 50V	R733	1-249-422-11	CARBON	2.7K 5% 1/4W
C709	1-102-110-00	CERAMIC	220PF 10% 50V	R734	1-249-425-11	CARBON	4.7K 5% 1/4W
C710	1-102-110-00	CERAMIC	220PF 10% 50V	R735	1-249-405-11	CARBON	100 5% 1/4W
C711	1-101-004-00	CERAMIC	0.01MF 50V	<del>R737</del>	<del>1-206-692-61</del>	<del>METAL OXIDE</del>	<del>15K 5% 1/2W F</del>
C722	1-162-622-11	CERAMIC	330PF 10% 6.3KV	R738	1-202-848-00	SOL ID	680K 10% 1/2W
<u>DIODE</u>				R739	1-202-838-00	SOL ID	100K 10% 1/2W
D701	8-719-911-19	DIODE 1SS119		R740	1-202-842-11	SOL ID	220K 10% 1/2W
D702	8-719-911-19	DIODE 1SS119		<u>VARIABLE RESISTOR</u>			
D703	8-719-911-19	DIODE 1SS119		<del>RV701A</del>	<del>1-230-619-11</del>	<del>RES, ADJ, METAL GLAZE</del>	<del>100M</del>
<u>COIL</u>				RV702	1-230-629-71	RES, ADJ, CARBON	3.3K
L701	1-408-450-31	INDUCTOR	47UH	RV703	1-230-271-71	RES, ADJ, CARBON	4.7K
<u>TRANSISTOR</u>				RV704	1-230-629-71	RES, ADJ, CARBON	3.3K
Q701	8-729-178-54	TRANSISTOR 2SC2785		RV705	1-230-271-71	RES, ADJ, CARBON	4.7K
Q702	8-729-326-11	TRANSISTOR 2SC2611		RV706	1-230-271-71	RES, ADJ, CARBON	4.7K
Q703	8-729-178-54	TRANSISTOR 2SC2785		RV707	1-230-631-71	RES, ADJ, CARBON	22K
<u>CAPACITOR</u>				RV708	1-230-641-21	RES, ADJ, METAL GLAZE	2.2M
*****				*****			
				*A-1347-022-A	V BOARD, COMPLETE	*****	
				*4-376-533-01	CASE (MAIN), SHIELD		
				*4-376-535-01	CASE (BOTTOM), SHIELD		

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R1127	1-249-427-11	CARBON	6.8K 5% 1/4W	C1406	1-101-004-00	CERAMIC	0.01MF 50V
R1128	1-249-417-11	CARBON	1K 5% 1/4W	C1407	1-126-101-11	ELECT	100MF 20% 16V
R1129	1-249-423-11	CARBON	3.3K 5% 1/4W	C1408	1-101-004-00	CERAMIC	0.01MF 50V
R1130	1-249-427-11	CARBON	6.8K 5% 1/4W	C1409	1-126-101-11	ELECT	100MF 20% 16V
R1131	1-249-417-11	CARBON	1K 5% 1/4W	C1411	1-123-875-11	ELECT	10MF 20% 50V
R1133	1-249-417-11	CARBON	1K 5% 1/4W	C1413	1-123-875-11	ELECT	10MF 20% 50V
R1134	1-249-422-11	CARBON	2.7K 5% 1/4W	C1414	1-102-963-00	CERAMIC	33PF 5% 50V
R1135	1-249-437-11	CARBON	47K 5% 1/4W	C1415	1-106-359-00	MYLAR	0.0047MF 10% 100V
R1137	1-249-401-11	CARBON	47 5% 1/4W	C1416	1-124-477-11	ELECT	47MF 20% 16V
R1138	1-249-437-11	CARBON	47K 5% 1/4W	C1417	1-106-343-00	MYLAR	0.001MF 10% 100V
R1139	1-249-428-11	CARBON	8.2K 5% 1/4W	C1418	1-124-477-11	ELECT	47MF 20% 16V
R1140	1-249-427-11	CARBON	6.8K 5% 1/4W	C1419	1-102-963-00	CERAMIC	33PF 5% 50V
TRANSFORMER				C1420	1-102-963-00	CERAMIC	33PF 5% 50V
T1101	1-404-607-11	COIL		C1423	1-108-383-00	MYLAR	0.033MF 10% 100V
T1102	1-404-607-11	COIL		C1424	1-106-367-00	MYLAR	0.01MF 10% 100V
CONNECTOR				C1426	1-108-383-00	MYLAR	0.033MF 10% 100V
V1	*1-566-057-11	PIN, CONNECTOR 5P		C1427	1-106-367-00	MYLAR	0.01MF 10% 100V
V2	*1-566-061-11	PIN, CONNECTOR 9P		C1429	1-124-908-11	ELECT	22MF 20% 50V
V3	*1-566-060-11	PIN, CONNECTOR 8P		C1430A	1-161-742-51	CERAMIC	0.0022MF 20% 400V
*****				C1431	1-124-908-11	ELECT	22MF 20% 50V
*1-625-169-11	U1 BOARD			C1432	1-124-908-11	ELECT	22MF 20% 50V
	*****			C1433	1-124-963-11	ELECT	33MF 20% 16V
1-565-442-11	PLUG, CONNECTOR 4P			C1434	1-124-499-11	ELECT	1MF 20% 50V
*1-566-041-11	PIN, CONNECTOR 2P			C1435	1-124-499-11	ELECT	1MF 20% 50V
CAPACITOR				C1436	1-123-875-11	ELECT	10MF 20% 50V
C013	1-124-477-11	ELECT	47MF 20% 25V	C1437	1-123-875-11	ELECT	10MF 20% 50V
IC				C1438	1-123-875-11	ELECT	10MF 20% 50V
IC001	8-719-927-74	PC817-C		C1439	1-123-875-11	ELECT	10MF 20% 50V
TRANSISTOR				C1442	1-124-908-11	ELECT	22MF 20% 50V
Q008	8-729-117-54	TRANSISTOR 2SA1175		C1446	1-123-875-11	ELECT	10MF 20% 50V
Q009	8-729-117-54	TRANSISTOR 2SA1175		C1447	1-123-875-11	ELECT	10MF 20% 50V
RESISTOR				C1449	1-126-101-11	ELECT	100MF 20% 16V
R058	1-249-426-11	CARBON	5.6K 5% 1/4W	C1450	1-124-499-11	ELECT	1MF 20% 50V
R059	1-249-429-11	CARBON	10K 5% 1/4W	C1451	1-124-499-11	ELECT	1MF 20% 50V
R060	1-249-417-11	CARBON	1K 5% 1/4W	C1452	1-102-121-00	CERAMIC	0.0022MF 10% 50V
R061	1-246-529-00	CARBON	220K 5% 1/4W	C1453	1-102-125-00	CERAMIC	0.0047MF 10% 50V
R062	1-246-529-00	CARBON	220K 5% 1/4W	C1454	1-126-103-11	ELECT	470MF 20% 16V
R063	1-249-421-11	CARBON	2.2K 5% 1/4W	C1467	1-124-005-11	ELECT	4.7MF 20% 50V
*****				C1468	1-124-005-11	ELECT	4.7MF 20% 50V
*A-1394-131-A	U BOARD, COMPLETE			C1469	1-123-875-11	ELECT	10MF 20% 50V
	*****			C1470	1-124-499-11	ELECT	1MF 20% 50V
CAPACITOR				C1471	1-124-499-11	ELECT	1MF 20% 50V
C1401	1-124-604-00	ELECT	330MF 20% 10V	C1472	1-123-875-11	ELECT	10MF 20% 50V
C1402	1-124-604-00	ELECT	330MF 20% 10V	C1473	1-123-875-11	ELECT	10MF 20% 50V
C1403	1-124-963-11	ELECT	33MF 20% 16V	C1474	1-123-875-11	ELECT	10MF 20% 50V
C1404	1-124-119-00	ELECT	330MF 20% 16V	C1475	1-123-875-11	ELECT	10MF 20% 50V
C1405	1-124-119-00	ELECT	330MF 20% 16V	C1476	1-124-499-11	ELECT	1MF 20% 50V
*****				C1477	1-124-499-11	ELECT	1MF 20% 50V
CAPACITOR				C1478	1-124-908-11	ELECT	22MF 20% 50V
C1401	1-124-604-00	ELECT	330MF 20% 10V	C1479	1-124-908-11	ELECT	22MF 20% 50V
C1402	1-124-604-00	ELECT	330MF 20% 10V	C1480	1-123-875-11	ELECT	10MF 20% 50V
C1403	1-124-963-11	ELECT	33MF 20% 16V	C1481	1-123-875-11	ELECT	10MF 20% 50V
C1404	1-124-119-00	ELECT	330MF 20% 16V	DIODE			
C1405	1-124-119-00	ELECT	330MF 20% 16V	D1401	8-719-109-92	DIODE RD6.2ES-B1	
*****				D1430	8-719-911-19	DIODE 1SS119	
CAPACITOR				D1432	8-719-911-19	DIODE 1SS119	
C1401	1-124-604-00	ELECT	330MF 20% 10V	IC			
C1402	1-124-604-00	ELECT	330MF 20% 10V	IC1401	1-235-783-11	INSULATED MODULE, VIDEO(IVM-1)	
C1403	1-124-963-11	ELECT	33MF 20% 16V	IC1402	1-235-784-11	INSULATED MODULE, AUDIO(IAM-1)	
C1404	1-124-119-00	ELECT	330MF 20% 16V	IC1403	1-235-784-11	INSULATED MODULE, AUDIO(IAM-1)	
C1405	1-124-119-00	ELECT	330MF 20% 16V	IC1404	1-235-784-11	INSULATED MODULE, AUDIO(IAM-1)	

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KV-27TX20  
RM-754

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
IC1405	1-235-784-11	INSULATED MODULE, AUDIO(IAM-1)		R1434	1-249-468-11	CARBON 82K 5% 1/4W	
IC1407	8-759-140-66	IC UPD4066BC		R1435	1-246-537-00	CARBON 470K 5% 1/4W	
IC1408	8-759-132-40	IC UPC324C		R1436	1-249-468-11	CARBON 82K 5% 1/4W	
IC1410	8-759-940-88	IC MB3110A		R1437	1-246-537-00	CARBON 470K 5% 1/4W	
				R1438	1-249-468-11	CARBON 82K 5% 1/4W	
		JACK		R1439	1-249-432-11	CARBON 18K 5% 1/4W	
J1401	1-563-303-21	JACK BLOCK, PIN 3P		R1440	1-249-432-11	CARBON 18K 5% 1/4W	
J1402	1-563-303-11	JACK BLOCK, PIN 3P		R1441	1-249-435-11	CARBON 33K 5% 1/4W	
J1403	1-563-302-11	JACK BLOCK, PIN 2P		R1442	1-249-429-11	CARBON 10K 5% 1/4W	
				R1443	1-247-726-11	CARBON 33K 5% 1/4W	
		TRANSISTOR		R1444	1-249-435-11	CARBON 33K 5% 1/4W	
Q1401	8-729-178-54	TRANSISTOR 2SC2785		R1445	1-249-426-11	CARBON 5.6K 5% 1/4W	
Q1402	8-729-178-54	TRANSISTOR 2SC2785		R1446	1-249-426-11	CARBON 5.6K 5% 1/4W	
Q1431	8-729-178-54	TRANSISTOR 2SC2785		R1447	1-249-391-91	CARBON 6.8 5% 1/4W	F
Q1432	8-729-178-54	TRANSISTOR 2SC2785		R1448	1-249-391-91	CARBON 6.8 5% 1/4W	F
Q1433	8-729-178-54	TRANSISTOR 2SC2785		R1449	1-249-391-91	CARBON 6.8 5% 1/4W	F
Q1434	8-729-178-54	TRANSISTOR 2SC2785		R1450	1-249-391-91	CARBON 6.8 5% 1/4W	F
Q1435	8-729-178-54	TRANSISTOR 2SC2785		R1455	1-249-405-11	CARBON 100 5% 1/4W	
Q1436	8-729-178-54	TRANSISTOR 2SC2785		R1456	1-247-700-11	CARBON 100 5% 1/4W	
Q1437	8-729-178-54	TRANSISTOR 2SC2785		R1457	1-247-713-11	CARBON 1K 5% 1/4W	
Q1438	8-729-178-54	TRANSISTOR 2SC2785		R1458	1-249-417-11	CARBON 1K 5% 1/4W	
Q1439	8-729-117-54	TRANSISTOR 2SA1175		R1459	1-249-466-11	CARBON 56K 5% 1/4W	
Q1440	8-729-117-54	TRANSISTOR 2SA1175		R1460	1-249-466-11	CARBON 56K 5% 1/4W	
Q1441	8-729-117-54	TRANSISTOR 2SA1175		R1461	1-249-466-11	CARBON 56K 5% 1/4W	
Q1442	8-729-117-54	TRANSISTOR 2SA1175		R1462	1-249-438-11	CARBON 56K 5% 1/4W	
Q1443	8-729-117-54	TRANSISTOR 2SA1175		R1463	1-249-431-11	CARBON 15K 5% 1/4W	
Q1444	8-729-900-89	TRANSISTOR DTC144ES		R1464	1-249-431-11	CARBON 15K 5% 1/4W	
Q1445	8-729-178-54	TRANSISTOR 2SC2785		R1465	1-249-429-11	CARBON 10K 5% 1/4W	
Q1446	8-729-115-30	TRANSISTOR 2SK105A		R1466	1-249-433-11	CARBON 22K 5% 1/4W	
Q1447	8-729-900-89	TRANSISTOR DTC144ES		R1467	1-249-433-11	CARBON 22K 5% 1/4W	
		RESISTOR		R1468	1-249-462-11	CARBON 22K 5% 1/4W	
R1401	1-247-699-11	CARBON 82 5% 1/4W		R1469	1-249-433-11	CARBON 22K 5% 1/4W	
R1402	1-247-712-11	CARBON 820 5% 1/4W		R1470	1-249-433-11	CARBON 22K 5% 1/4W	
R1403	1-247-699-11	CARBON 82 5% 1/4W		R1471	1-249-433-11	CARBON 22K 5% 1/4W	
R1404	1-247-712-11	CARBON 820 5% 1/4W		R1472	1-249-462-11	CARBON 22K 5% 1/4W	
R1405	1-249-410-11	CARBON 270 5% 1/4W		R1473	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1406	1-249-416-11	CARBON 820 5% 1/4W		R1474	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1407	1-249-433-11	CARBON 22K 5% 1/4W		R1475	1-249-417-11	CARBON 1K 5% 1/4W	
R1408	1-249-425-11	CARBON 4.7K 5% 1/4W		R1477	1-249-405-11	CARBON 100 5% 1/4W	F
R1409	1-249-391-91	CARBON 6.8 5% 1/4W	F	R1478	1-249-433-11	CARBON 22K 5% 1/4W	
R1410	1-249-421-11	CARBON 2.2K 5% 1/4W		R1479	1-249-434-11	CARBON 27K 5% 1/4W	
R1411	1-249-391-91	CARBON 6.8 5% 1/4W	F	R1480	1-249-463-11	CARBON 27K 5% 1/4W	
R1412	1-249-405-11	CARBON 100 5% 1/4W		R1481	1-249-462-11	CARBON 22K 5% 1/4W	
R1413	1-249-405-11	CARBON 100 5% 1/4W		R1482	1-247-895-00	CARBON 470K 5% 1/4W	
R1416	1-249-469-11	CARBON 100K 5% 1/4W		R1483	1-249-462-11	CARBON 22K 5% 1/4W	
R1417	1-249-469-11	CARBON 100K 5% 1/4W		R1484	1-249-429-11	CARBON 10K 5% 1/4W	
R1418	1-249-462-11	CARBON 22K 5% 1/4W		R1485	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1419	1-247-700-11	CARBON 100 5% 1/4W		R1486	1-249-423-11	CARBON 3.3K 5% 1/4W	
R1421	1-249-429-11	CARBON 10K 5% 1/4W		R1487	1-247-893-11	CARBON 390K 5% 1/4W	
R1422	1-249-441-11	CARBON 100K 5% 1/4W		R1488	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1423	1-249-441-11	CARBON 100K 5% 1/4W		R1489	1-249-423-11	CARBON 3.3K 5% 1/4W	
R1424	1-249-425-11	CARBON 4.7K 5% 1/4W		R1490	1-247-893-11	CARBON 390K 5% 1/4W	
R1425	1-249-433-11	CARBON 22K 5% 1/4W		R1491	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1426	1-249-433-11	CARBON 22K 5% 1/4W		R1492	1-246-529-00	CARBON 220K 5% 1/4W	
R1427	1-249-429-11	CARBON 10K 5% 1/4W		R1493	1-247-725-11	CARBON 10K 5% 1/4W	
R1428	1-249-423-11	CARBON 3.3K 5% 1/4W		R1494	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1429	1-249-423-11	CARBON 3.3K 5% 1/4W		R1495	1-247-725-11	CARBON 10K 5% 1/4W	
R1430	1-202-726-91	SOL ID 3.9M 10% 1/2W		R1496	1-247-700-11	CARBON 100 5% 1/4W	
R1431	1-246-537-00	CARBON 470K 5% 1/4W		R1497	1-249-441-11	CARBON 100K 5% 1/4W	
R1432	1-249-468-11	CARBON 82K 5% 1/4W		R1500	1-249-417-11	CARBON 1K 5% 1/4W	
R1433	1-246-537-00	CARBON 470K 5% 1/4W		R1501	1-249-417-11	CARBON 1K 5% 1/4W	
				R1503	1-249-463-11	CARBON 27K 5% 1/4W	
				R1504	1-249-463-11	CARBON 27K 5% 1/4W	
				R1505	1-249-391-11	CARBON 6.8 5% 1/4W	F
				R1506	1-249-391-11	CARBON 6.8 5% 1/4W	F

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Les composants identifiés par  
une trame et une marque  $\Delta$   
sont critiques pour la sécurité.  
Ne les remplacer que par une  
pièce portant le numéro spécifié.

The components identified by  
shading and mark  $\Delta$  are critical  
for safety.  
Replace only with part number  
specified.

Ref.No.	Part No.	Description	Remark
R1507	1-246-527-00	CARBON	180K 5% 1/4W
R1508	$\Delta$ 1-249-391-91	CARBON	6.8 5% 1/4W F
R1509	$\Delta$ 1-249-391-91	CARBON	6.8 5% 1/4W F
R1510	1-247-713-11	CARBON	1K 5% 1/4W
R1511	1-249-469-11	CARBON	100K 5% 1/4W
R1512	1-247-713-11	CARBON	1K 5% 1/4W
R1513	1-249-469-11	CARBON	100K 5% 1/4W
R1514	1-249-435-11	CARBON	33K 5% 1/4W
R1515	1-249-435-11	CARBON	33K 5% 1/4W
R1516	1-249-405-11	CARBON	100 5% 1/4W
R1517	1-249-405-11	CARBON	100 5% 1/4W
R1518	1-249-434-11	CARBON	27K 5% 1/4W
R1519	1-249-469-11	CARBON	100K 5% 1/4W
R1520	1-249-469-11	CARBON	100K 5% 1/4W
R1521	1-249-441-11	CARBON	100K 5% 1/4W
R1522	1-249-441-11	CARBON	100K 5% 1/4W
R1527	1-249-425-11	CARBON	4.7K 5% 1/4W
R1528	1-249-441-11	CARBON	100K 5% 1/4W
R1534	1-249-428-11	CARBON	8.2K 5% 1/4W
R1535	1-249-417-11	CARBON	1K 5% 1/4W
R1536	1-249-405-11	CARBON	100 5% 1/4W
R1540	1-249-433-11	CARBON	22K 5% 1/4W
R1543	1-249-437-11	CARBON	47K 5% 1/4W
R1545	1-249-433-11	CARBON	22K 5% 1/4W
R1546	1-249-405-11	CARBON	100 5% 1/4W
R1547	1-247-700-11	CARBON	100 5% 1/4W

## CONNECTOR

U2	*1-566-055-11	PIN, CONNECTOR 3P
U3	*1-566-059-11	PIN, CONNECTOR 7P
U4	*1-566-060-11	PIN, CONNECTOR 8P
U5	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P

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MISCELLANEOUS  
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$\Delta$ 1-230-940-21	RESISTOR ASSY, HIGH-VOLTAGE
$\Delta$ 1-417-159-11	SELECTOR, ANTENNA
$\Delta$ 1-426-350-21	COIL, DEMAGNETIZATION
$\Delta$ 1-451-275-11	DÉFLECTION YOKE (SY-158)
1-452-032-00	MAGNET, DISK; 10MM $\phi$

1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$
1-503-476-11	SPEAKER
1-529-062-11	BUZZER
$\Delta$ 1-559-396-11	CORD, POWER

T504	$\Delta$ 1-439-372-13	TRANSFORMER ASSY, FLYBACK
V901	$\Delta$ 8-737-753-05	PICTURE TUBE (A68JMT50X)

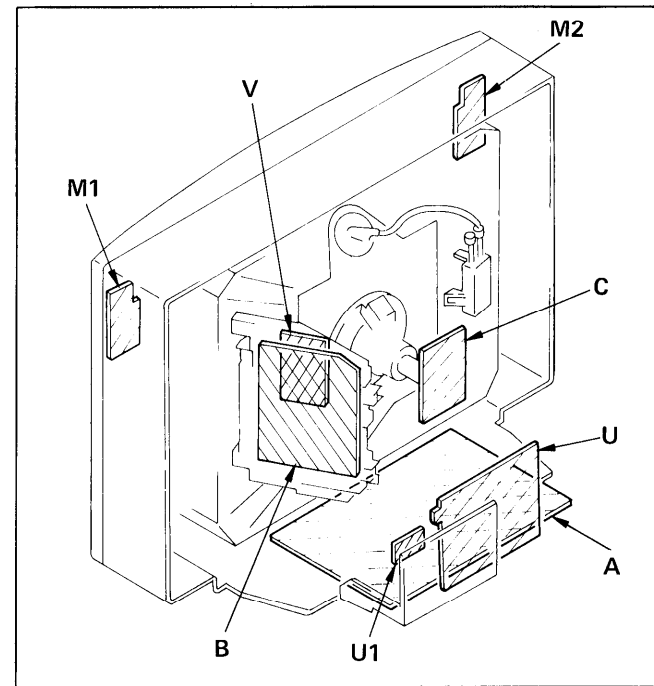
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ACCESSORIES AND PACKING MATERIALS  
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Part No.	Description	Remark
A-1470-833-A	COMMANDER ASSY (RM-754)	
$\Delta$ 1-513-379-00	CONVERTER (EAC-25)(CND ONLY)	
1-562-443-11	CONNECTOR, ANTENNA (US ONLY)	
4-482-589-21	MANUAL, INSTRUCTION	
4-482-589-31	MANUAL, INSTRUCTION (CND ONLY)	
*4-380-432-01	BAG, PROTECTION	
*4-388-470-01	INDIVIDUAL CARTON	
*4-388-471-01	CUSHION (UPPER) (ASSY)	
*4-388-472-01	CUSHION (LOWER) (ASSY)	



6-3. CIRCUIT BOARDS LOCATION



- Note:
- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{F}$  50WV or less are not indicated except for electrolytics.
  - All resistors are in ohms.
  - $\Delta$ : internal component.
  - $\square$ : nonflammable resistor.
  - $\square$ : adjustment for repair.
  - Indication of resistance, which does not have one for rating electrical power is as follows.
- Pitch: 5 mm  
Rating electrical power: 1/4 W

Reference information

- RESISTOR
- RN METAL FILM
  - RC SOLID
  - FRD NONFLAMMABLE CARBON
  - FUSE NONFLAMMABLE FUSIBLE
  - RW NONFLAMMABLE WIREWOUND
  - RB NONFLAMMABLE CEMENT
- COIL
- LF-SL MICRO INDUCTOR
- CAPACITOR
- TA TANTALUM
  - PS STYROL
  - PP POLYPROPYLENE
  - PT MYLAR
  - MPS METALIZED POLYESTER
  - MPP METALIZED POLYPROPYLENE
  - ALB BIPOLAR
  - ALT HIGH TEMPERATURE
  - ALR HIGH RIPPLE

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by  $\square$  in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by  $\square$ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  $\square$  and repeat the adjustment until the specified value is achieved. (Refer to R381 adjustment on Page 15, 16.) When replacing the part in below table, be sure to perform the related adjustment. (HOLD DOWN)

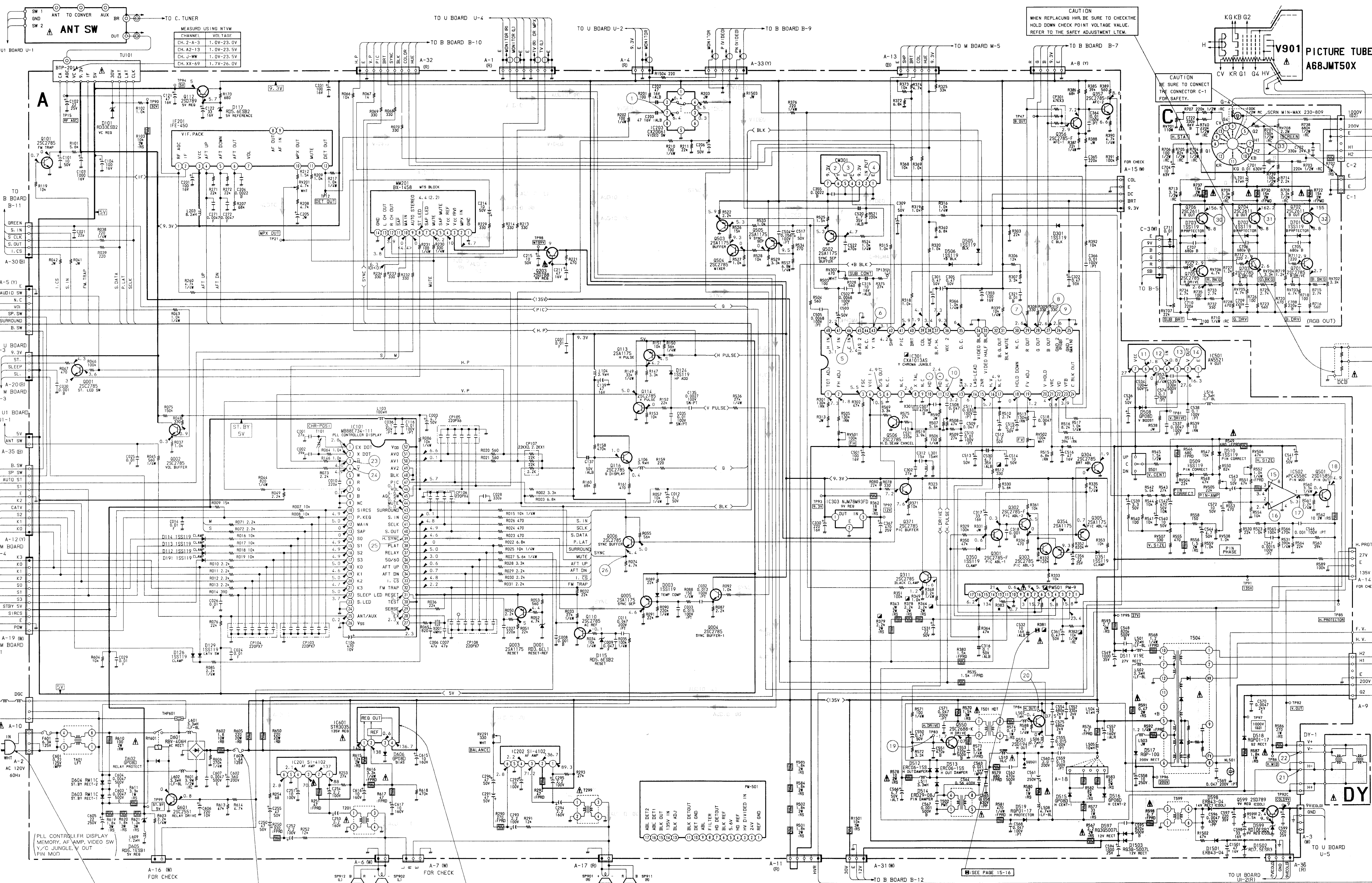
Part replaced ( $\square$ )	Adjustment ( $\square$ )
IC301, PM501, R512, R381, R382, R378, R379, R344	R381

- Voltages are dc with respect to ground unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10 M $\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- $\square$ : B+ bus.
- The hold down check point is pin 4 of A-14 connector.
- $\square$ : signal path.

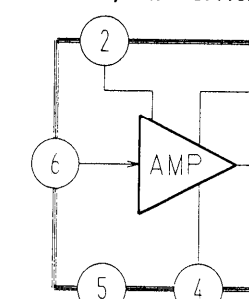
Note: The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacez que par une pièce portant le numéro spécifié.

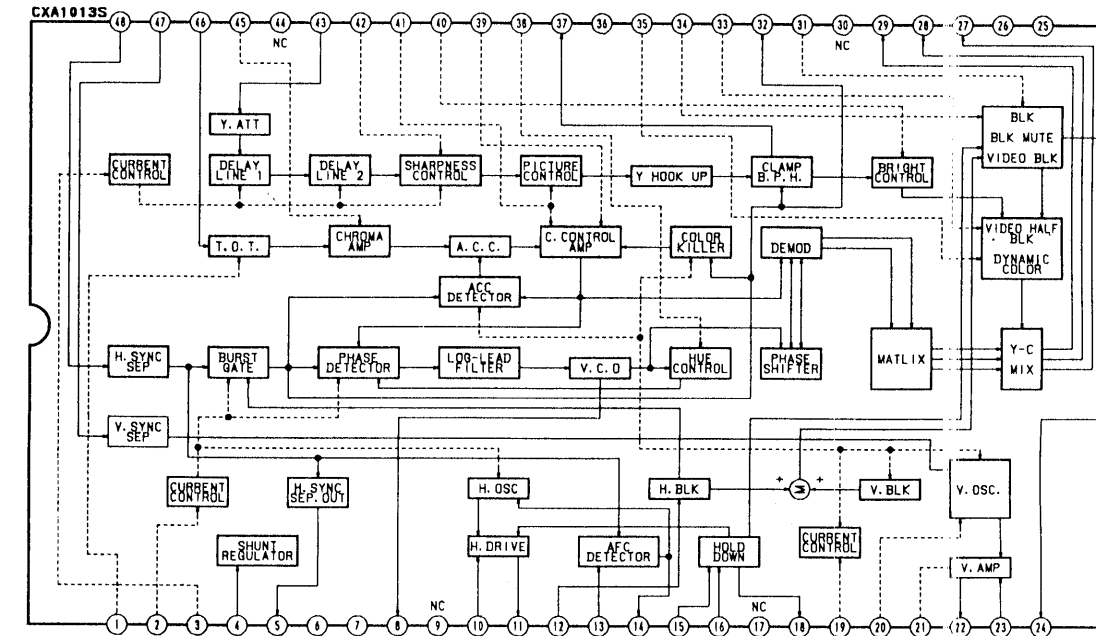
6-4. SCHEMATIC DIAGRAM



IC201, 202 SI4102



IC301 CXA1013AS



IC501 AN5521

